STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

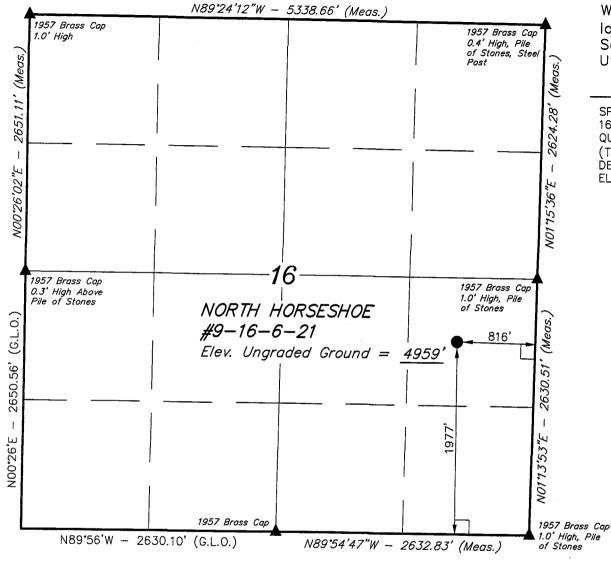
AMENDED REPORT	
(highlight changes)	

DIV. OF OIL, GAS & MINING

					ERAL LEASE NO: 49317	6. SURFACE: State			
1A. TYPE OF WORK: DRILL Z REENTER DEEPEN D					7. IF IN	IDIAN, ALLOTTEE OR			
B. TYPE OF WE	S UNIT of CA ACREMENT NAME.					NAME:			
2. NAME OF OPE					OLL ZONL				
The Housto	on Exploration	on Company	/				1	LL NAME and NUMBER  Th Horseshoe	
3. ADDRESS OF 1100 Louis		20 <sub>CITY</sub> Houst	on.	TX Zip 770	nn2	PHONE NUMBER: (713) 830-6800	10. FIE	LD AND POOL, OR W	
	WELL (FOOTAGE							disignated R/QTR, SECTION, TO	WNSHIP RANGE
AT SURFACE:	1977' FSL	& 816' FEL		895 X		97080	ME	RIDIAN:	
AT PROPOSED	PRODUCING ZON	NE: Same as	s above.	15247	109.	554046	NES	SE 16 T69	S R21
14. DISTANCE IN	MILES AND DIRE	CTION FROM NEA	REST TOWN OR PC	OST OFFICE:			12. CC	UNTY:	13. STATE:
	s south of V	•					Uin	tah	UTAH
	O NEAREST PROP	PERTY OR LEASE L	INE (FEET)	16. NUMBER OF	FACRES IN LEA	ASE:	17. NUMBER	OF ACRES ASSIGNED	TO THIS WELL:
816'						720			40
18. DISTANCE TO APPLIED FOI	O NEAREST WELL R) ON THIS LEASE	. (DRILLING, COMP (FEET)	LETED, OR	19. PROPOSED	DEPTH:	· · ·	20. BOND DES	SCRIPTION:	
1,900'		-				9,400	104155	044	
		R DF, RT, GR, ETC	.):	22. APPROXIMA		K WILL START:		D DURATION:	
4,966 GR	<u> </u>			1/1/2006	<u> </u>		30 Days	S	
24.			PROPOS	SED CASING AI	ND CEMEN	ITING PROGRAM			
SIZE OF HOLE	CASING SIZE,	GRADE, AND WEIG	SHT PER FOOT	SETTING DEPTH		CEMENT TYPE, QUA	ANTITY, YIELD, A	AND SLURRY WEIGHT	·
11"	8 5/8"	J-55	36#	2,000	Premium	Lite II	250 SKS	3.38 CF	11.0 PPG
					CLASS "	G"	329 SKS	1.2 CF	15.6 PPG
					Calcium	Chloride	200 SKS	1.10 CF	15.6 PPG
7 7/8	4 1/2	N-80	11.6#	9,400	Premium	Lite II	200 SKS	3.3 CF	14.3 PPG
<del>-</del>	<u> </u>	···	<u> </u>		<u>L</u>		- PAN	FINEN	HAL
25.				ATTA	CHMENTS		CON	וווטבויי	•• •-
VERIFY THE FOI	LLOWING ARE ATT	TACHED IN ACCOR	DANCE WITH THE	UTAH OIL AND GAS C	ONSERVATION	GENERAL RULES:			
<b>✓</b> WELL PL	AT OR MAP PREP	ARED BY LICENSE	D SURVEYOR OR E	ENGINEER	<b>I Z</b> c	OMPLETE DRILLING PLAN			
<b>V</b> EVIDENC	CE OF DIVISION OF	F WATER RIGHTS	APPROVAL FOR US	SE OF WATER	☐ FO	DRM 5, IF OPERATOR IS PE	RSON OR COM	PANY OTHER THAN T	HE LEASE OWNER
	·								
NAME (PLEASE	PRINT) Willian	n A Ryan	<i></i>			E Agent			
SIGNATURE	Willio	nele M	P		DA1	11/14/2005			
(This space for Sta			/	A)	pproved	by the sion of		RE	CEIVED
API NUMBER AS	SIGNED:	3-047-3	1439	Oil,	Gas an	d Mining		DE	EC 0 1 2005

(11/2001)

## T6S, R21E, S.L.B.&M.

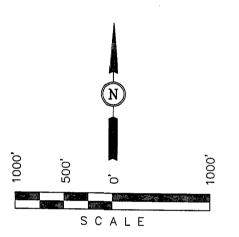


#### THE HOUSTON EXPLORATION COMPANY

Well location, NORTH HORSESHOE #9-16-6-21, located as shown in the NE 1/4 SE 1/4 of Section 16, T6S, R21E, S.L.B.&M. Uintah County, Utah.

#### BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 16, T6S, R21E, S.L.B.&M. TAKEN FROM THE VERNAL, SE QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5217 FEFT.



#### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS TREP ARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE THE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BES

REGISTERED LAND SURVEYOR REGISTRATION NO. 161319

#### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

#### LEGEND:

\_ = 90° SYMBOL

= PROPOSED WELL HEAD.

= SECTION CORNERS LOCATED.

(AUTONOMOUS NAD 83)
LATITUDE = 40°17'49.34" (40.297039)
LONGITUDE = 109°33'17.09" (109.554747)
(AUTONOMOUS NAD 27)

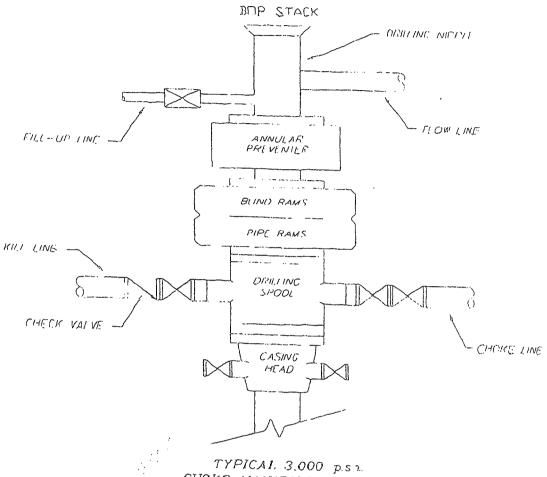
LATITUDE = 40°17'49.48" (40.297078) LONGITUDE = 109°33'14.60" (109.554056)

# UINTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017

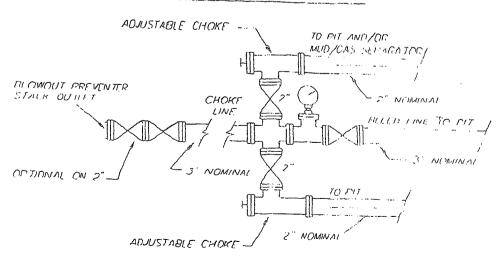
SCALE 1" = 1000'	DATE SURVEYED: DATE DRAWN: 07-22-05 08-16-05	
N.H. D.S. P.M.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE THE HOUSTON EXPLORATION COMPANY	

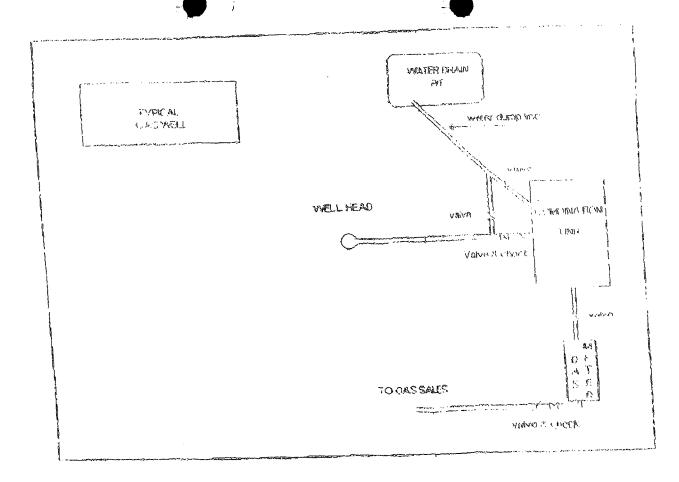
## THE HOUSTON EXPLORATION COMPANY

#### TYPICAL 3,000 p.s. 1. BLOWOUT PREVENTER SCHEMATIC



CHOKE MANIFOLD SCHEMATIC





#### Ten Point Plan

#### The Houston Exploration Company

#### North Horseshoe 9-16-6-21

Surface Location NE 1/4 SE 1/4, Section 16, T. 6S., R. 21E.

#### 1. Surface Formation

Green River

#### 2. Estimated Formation Tops and Datum:

Formation	Depth	Datum
GR	Surface	4,966'
KB	+12'	4,978'
Green River	3,701'	+1,277'
Wasatch	6,801'	-1,823'
Mesaverda	9,400'	-4,422'TD

A 11" hole will be drilled to 2,000' +/-. The hole depth will depend on the depth that the Birds Nest Zone is encountered. The hole will be drilled 400' beyond the top of the Birds Nest.

#### 3. Producing Formation Depth:

Formation objective includes the Green River, Wasatch, Mesaverde and its submembers.

Off set well information

Permitted/Drilled:

North Horseshoe #15-16-6-21 North Horseshoe #7-16-6-21 North Horseshoe #3-16-6-21

Abandoned Wells:

**GOV #1** 

## 4. Proposed Casing:

Hole	Casing			Coupling	Casing	
<u>Size</u>	<u>Size</u>	Weight/FT	<u>Grade</u>	& Tread	Depth	New/Used
11	8 5/8	36#	J-55	STC	2000	NEW
7 7/8	$4\frac{1}{2}$	11.6#	N-80	LTC	T.D.	NEW

#### **Cement Program:**

#### The Surface Casing will be cemented to the Surface as follows:

Lead:	Casing <u>Size</u>	Cement Type	Cement Amounts	Cement <u>Yield</u>	Cement Weight
Bout.	8 5/8	Premium Lite II .05#/sk Static Free .25#/sk Cello Flake 5#/sk KOL Seal .002 gps FP-6L 10% Bentonite .5% Sodium Metasili 3% Potassium Chlori	icate	3.38ft³/sk	11.0 ppg
Tail:					
	8 5/8	Class "G" 2% Calcium Chlorid .25#/sk Cello Flake	329 sks. +/- e	1.2ft³/sk	15.6 ppg
Top Jo	b:				
	8 5/8	4% Calcium Chloride .25#/sk Cello Flake	200 sks. +/	⁄-1.10ft³/sk	15.6 ppg

#### Production casing will be cemented to 2,500' or higher as follows:

	Casing Size	Cement <u>Type</u>	Cement Amounts	Cement Yield	Cement Weight
	<u></u>	<u>-,, p-</u>	11110 01110	11014	<u>vv Cigiit</u>
Lead:					
	4 1/2	Premium Lite II .25#/sk Cello Flake .05#/sk Static Free 5#/sk Kol Seal 3% Potassium Chlor .055 gps FP-6L 10% Bentonite .5 Sodium Metasilica		3.3ft³/sk	11.0 ppg
Tail:					
	4 1/2	Class "G"	400 sks +/-	1.56ft³/sk	14.3 ppg

## 5. BOP and Pressure Containment Data:

.1% R-3 2% Bentonite

.05% Static Free 2 Sodium Chloride

The anticipated bottom hole pressure will be less than 3000 psi.

A 3000-psi WP BOP system as described in the BOP and Pressure Containment Data (attached) will be installed and maintained from the 8 5/8" surface casing. The BOP system including the casing will be pressure tested to minimum standards set forth in "On Shore Order #2". The BOP will be mechanically checked daily during the drilling operation.

 $400 \text{ sks +/-} \quad 1.56 \text{ft}^3/\text{sk}$ 

14.3 ppg

#### 6. Mud Program:

Interval	Mud weight <u>lbs./gal.</u>	Viscosity Sec./OT.	Fluid Loss Ml/30 Mins.	Mud Type
0-2000 2000-T.D.	Air/Clear Water 8.4-12.0	30	No Control 8-10	Water/Gel Water/Gel

#### 7. Auxiliary Equipment

Upper Kelly cock, full opening stabbing valve, 2 ½" choke manifold and pit level indicator.

#### 8. Testing, Coring, Sampling and Logging:

a) Test: None are anticipated.

b) Coring: There is the possibility of sidewall coring.

c) Sampling: Every 10' from 2000' to T.D.

d) Logging: Type Interval

DLL/SFL W/GR and SP T.D. to Surf. Csg FDC/CNL W/GR and CAL T.D. to Surf. Csg

#### 9. Abnormalities (including sour gas):

No abnormal pressures, temperatures or other hazards are anticipated. Oil and gas shows are anticipated in the Wasatch Formation. Other wells drilled in the area have not encountered over pressured zones or H2S.

#### 10. Drilling Schedule:

The anticipated starting date is \_\_\_\_\_01/01/2006\_\_\_\_. Duration of operations is expected to be 30 days.

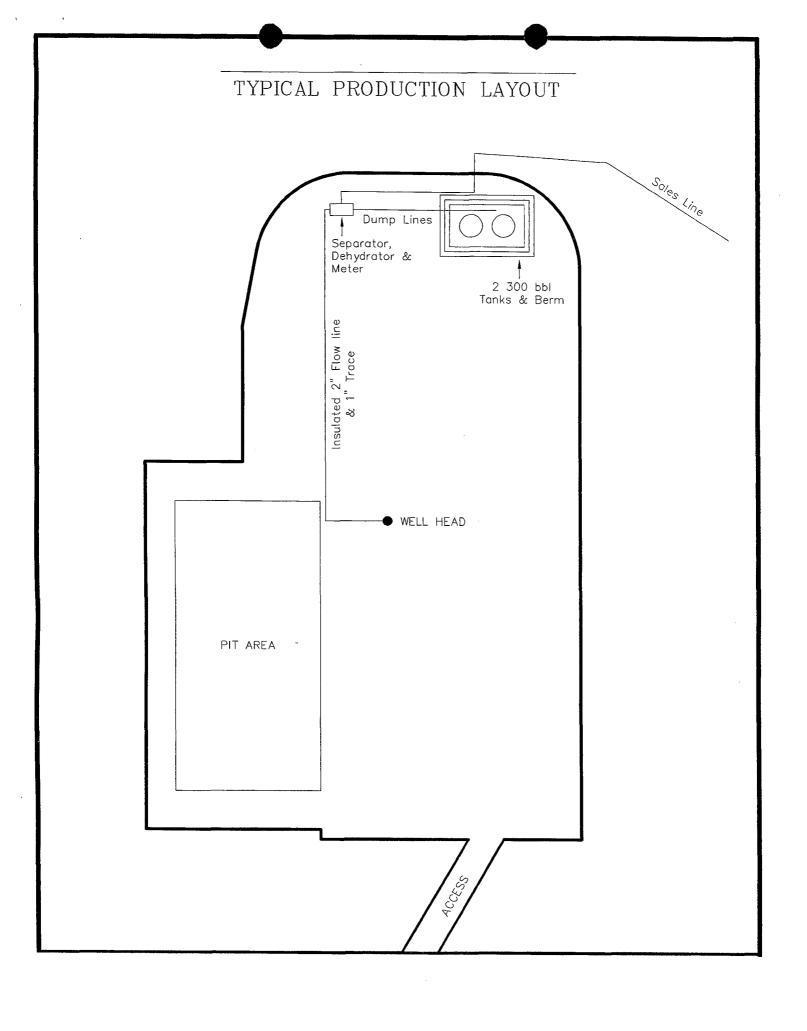
#### Statement of use of Hazardous Materials

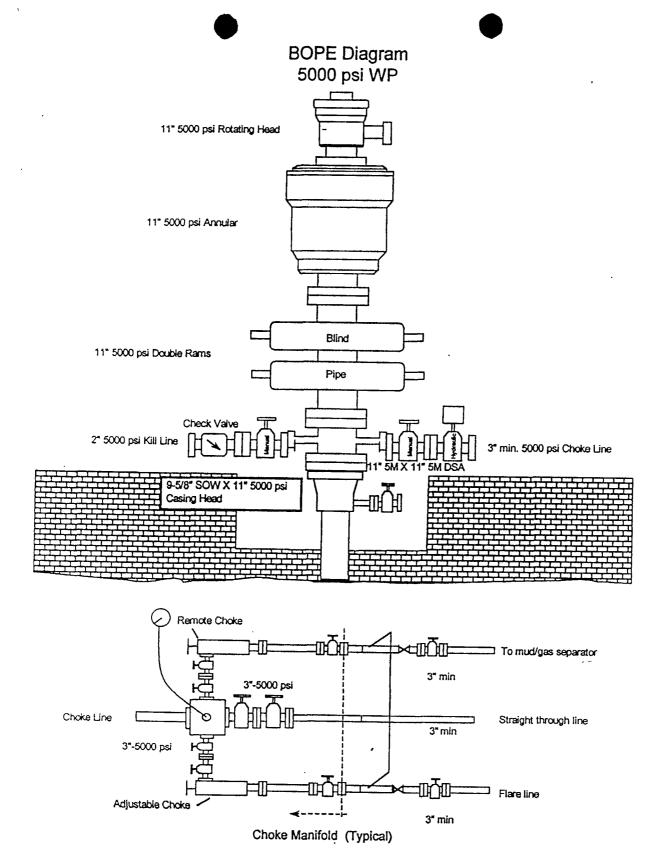
No chemical(s) from the EPA's consolidated list of Chemicals subject to Reporting under Title III of the Superfund Amendments and Reauthorization, Act (SARA) of 1986 will be used, produced, transported, stored, disposed, or associated with the proposed action. No extremely hazardous substances, as defined in 40 cfr 355, will be used, produced, stored, transported, disposed, or associated with the proposed action.

If you require additional information please contact:

William A Ryan Agent for The Houston Exploration Company Rocky Mountain Consulting 290 S 800 E Vernal, UT 84078

435-789-0968 Office 435-828-0968 Cell 435-789-0970 Fax





# THE HOUSTON EXPLORATION COMPANY 13 POINT SURFACE USE PLAN FOR WELL

**NORTH HORSESHOE #9-16-6-21** 

LOCATED IN NE 1/4 SE 1/4

**SECTION 16, T.6S, R21E, S.L.B.&M.** 

**UINTAH COUNTY, UTAH** 

**LEASE NUMBER: ML-49317** 

**SURFACE OWNERSHIP: STATE** 

#### 1. Existing Roads:

To reach The Houston Exploration Co. well North Horseshoe 9-16-6-21 in Section 16, T6S, R 21E, Starting in Vernal, Utah.

Proceed in a westerly direction from Vernal, UT along US Highway 40 approximately 14.0 miles to the junction of state highway 88; exit left and proceed in a southerly direction approximately 4.6 miles to the junction of this road and an existing road to the east; turn left and proceed in an easterly, then southerly, then easterly direction approximately 3.5 miles to the junction of this road and an existing road to the northeast; turn left and proceed in a northeasterly direction approximately 2.9 miles to the junction of this road and an existing road to the northeast; turn right and proceed in a northeasterly direction approximately 1.5 miles to the junction of this road and an existing road to the north; turn left and proceed in a northerly, then northeasterly direction approximately 1.1 miles to the beginning of the proposed access for the #15-16-6-21 to the northwest; follow road flags in a northwesterly direction approximately 0.2 miles to the beginning of the proposed access to the northeast; follow road flags in a northeasterly direction approximately 380' to the proposed location.

## Total distance from Vernal, Utah to the proposed well location is approximately 27.8 miles.

All existing roads to the proposed location are State of Utah, BLM maintained or County Class D roads. Please see the attached map for additional details.

#### 2. Planned access road

The proposed access road will be approximately 380' +/- of new construction on lease. The road will be graded once per year minimum and maintained.

A) Approximate length	380 ft
B) Right of Way width	30 ft
C) Running surface	18 ft
D) Surface material Nat	ive soil
E) Maximum grade	5%
F) Fence crossing	None
G) Culvert	None
H) Turnouts	None
I) Major cuts and fills	Yes
J) Road Flagged	Yes
K) Access road surface o	wnership
	State
L) All new construction	on lease
	Yes
M) Pipe line crossing	None

Please see the attached location plat for additional details.

## An off lease right-of-way will not be required.

All surface disturbances for the road and location will be within the lease boundary.

#### 3. Location of existing wells

The following wells are located within a one-mile radius of the location site.

A) Producing well	None
B) Water well	None
C) Abandanad mall	

C) Abandoned well GOV #1

D) Temp. abandoned well None
E) Disposal well None

F) Drilling /Permitted well North Horseshoe 1-16-6-21 North Horseshoe 7-16-6-21 North Horseshoe 3-16-6-21

North Horseshoe 15-16-6-21

North Horseshoe 11-16-6-21

North Horseshoe 13-16-6-21

G) Shut in wells

H) Injection well

None

I) Monitoring or observation well
None

Please see the attached map for additional details.

4. Location of tank batteries, production facilities and production gathering service lines.

All production facilities are to be contained within the proposed location site. Please see the attached plat plan for a typical gas well separator installation and well site piping.

All permanent (on site for more than six months or longer) structures constructed or installed will be painted an **Carlsbad Canyon** color. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded. The

## required paint color is Carlsbad Canyon.

All tanks will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank in the battery. The integrity of the dike will be maintained.

All off lease storage, off lease measurement, commingling on lease or off lease, of production, will have prior written approval form the authorized officer.

If the well is capable of economic production a surface gas line will be required.

Approximately 370' +/- of 3" steel surface gas gathering line would be constructed on State Lands. The line will tie into the proposed pipeline in Section 16, T6S, R21E. The pipeline would be strung and boomed to the southwest of the location and follow existing roads. The pipeline may be buried as determined by the Authorized Officer at the onsite.

An off lease right-of-way will not be required.

## Please see the attached location diagrams for pipeline location.

The gas meter run will be located within 500' of the wellhead. The gas line will be buried or anchored down from the wellhead to the meter.

Meter runs will be housed and/or fenced.

The gas meter will be calibrated and the tank strapped in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The authorized officer will be provided with a date and time for the initial meter calibration and all future meterproving schedules. A copy of the meter calibration report will be submitted to the State of Utah. Division of Oil, Gas, and Mining. All measurement facilities will conform to API (American Petroleum Institute) and AGA (American Gas Association) standards for gas and liquid hydrocarbon measurement.

#### 5. Location and type of water supply

Water for drilling and cementing will come from The Green River in Permit #T-76073.

#### 6. Source of construction materials

All construction material for this location site and access road shall be borrow material accumulated during construction of the location site and access road. Additional road gravel or pit lining material will be obtained from private resources.

#### 7. Methods for handling waste disposal

#### A) Pit construction and liners:

The reserve pit will be approximately 12 ft. deep and most of the depth shall be below the surface of the existing ground

Please see the attached plat for details.

The reserve pit will be lined.

The reserve pit will be used to store water for drilling. A semi-closed system will be used to drill the well. All fresh water for drilling will come from a frac tank placed on location and from the rig tank. The pit will be used to hold non-flammable materials such as cuttings, salt, drilling fluids, chemicals, produced fluids, etc.

#### B) Produced fluids:

Produced water will be confined to the reserve pit, or if deemed necessary, a storage tank for a period not to exceed 90 days after initial production. During the 90-day period an application for approval for permanent disposal method and location will be submitted to the authorized officer. Evaporation may be used instead of trucking to facilitate closing and reclamation of the reserve pit. A pumping system would be used for evaporation.

#### C) Garbage:

A trash cage fabricated from expanded metal will be used to hold trash on location and will be removed to an authorized landfill location.

#### D) Sewage:

A portable chemical toilet will be supplied for human waste.

#### E) Site clean-up:

After the rig is moved off the location the well site area will be cleaned and all refuse removed.

#### 8. Ancillary facilities

There are no ancillary facilities planned at this time and none are foreseen for the future.

#### Well-site layout

Location dimensions are as follows:

A) Pad length	345 ft.
B) Pad width	245 ft.
C) Pit depth	12 ft.
D) Pit length	150 ft.
E) Pit width	75 ft.
F) Max cut	71.8 ft.
G) Max fill	37.6 ft.

- H) Total cut yds. 56,060 cu yds
- I) Pit location

East end

J) Top soil location

North end

K) Access road location

West end corner C

L) Flare Pit

Please see the attached location diagram for additional details.

All pits will be fenced according to the following minimum standards:

A) Thirty nine inch net wire shall

be used with at least one strand of wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

- B) The net wire shall be no more than 2 inches above the ground. The barbed wire shall be 3 inches above the net wire. Total height of the fence shall be at leas 42 inches.
- C) Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- D) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 ft.
- E) All wire shall be stretched by using a stretching device before it is attached to the corner posts.

#### 10. Plans for restoration of the surface

Prior to construction of the location, the top 6 inches of soil material will be stripped off the location and the pit area. The topsoil removed and piled will amount to approximately 3,050 cubic yards of material. Topsoil will be stockpiled in one distinct pile. Placement of the topsoil is noted on the attached location plat. The topsoil pile from the location will be seeded as soon as the soil is stock piled with the seed mix listed. When all drilling and completion activities have been

completed and the pit back-filled the topsoil from the pit area will be spread on the pit area. The pit area will be seeded when the soil has been spread. The unused portion of the location (the area outside the dead men) will be re-contoured.

The dirt contractor will be provided with an approved copy of the surface use plan prior to construction activities.

Changes to the drainage during the construction activities shall be restored to its original line of flow or as near as possible when the pit is back-filled.

All disturbed areas will be recontoured to the approximate natural contours. Prior to back filling the pit the fences around the reserve pit will be removed.

The reserve pit will be reclaimed within 90 days of well completion. If the reserve pit has not dried sufficiently to allow back filling, an extension on the time requirement for back filling the pit will be requested. Once reclamation activities have begun, they shall be completed within 30 days.

After the reserve pit has been reclaimed, no depressions in the soil covering the reserve pit will be allowed. The objective is to keep seasonal rainfall and run off from seeping into the soil used to cover the reserve pit. Diversion ditches and water bars will be used to divert the run off as needed.

When restoration activities have been completed, the location site and new access road cuts and shoulders shall be reseeded. Prior to reseeding, all disturbed areas will be scarified and left with a rough surface.

#### A) Seeding dates:

Seed will be spread when topsoil is stock piled and when reclamation work is performed.

The seed mix and quantity list will be used whether the seed is broadcast or drilled.

#### B) Seed Mix

To be determined by the Authorized Officer.

#### 11. Surface ownership:

Access road State
Location State
Pipeline State

#### 12. Other information:

#### A) Vegetation

The vegetation coverage is slight. The majority of the existing vegetation consists of non-native species. Rabbit brush, bitter brush, and Indian Rice grass and Sagebrush are also found on the location.

#### B) Dwellings:

There are no dwelling or other facilities within a one-mile radius of the location.

#### C) Archeology:

The location has been surveyed. A copy of that survey will be forwarded to your office.

If, during operations, any archaeological or historical sites, or any objects of antiquity (subject to the antiquities act of June 8, 1906) are discovered, all operations, which would affect such sites, will be suspended and the discovery reported promptly to the surface management agency.

#### D) Water:

The nearest water is the Green River located 4000' to the South.

#### E) Chemicals:

No pesticides, herbicides or other possible hazardous chemicals will be used without prior application.

#### F) Notification:

- a) Location Construction At least forty-eight (48) hours prior to construction of location and access roads.
- b) Location completion Prior to moving on the drilling rig.
- c) Spud notice

- At least twenty-four (24) hours prior to spudding the well.
- d) Casing string and cementing
  At least twenty-four (24) hours prior to running casing and cementing all casing strings.
- e) BOP and related equipment tests At least twenty-four (24) hours prior to initial pressure tests.
- f) First production notice Within five (5) business days after the new well begins, or production resumes after well has been off production for more than 90 days.

#### G) Flare pit:

The flare pit will be located in **corner** C of the reserve pit out side the pit fences and 100 feet from the bore hole on the east side of the location. All fluids will be removed from the pit within 48 hours of occurrence.

## 13. Lessees or Operator's representative and certification.

#### A) Representative

William A. Ryan Rocky Mountain Consulting 290 S 800 E Vernal, UT 84078

Office 435-789-0968 Fax 435-789-0970 Cellular 435-828-0968 All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, onshore oil and gas orders, and any applicable notices to lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

This drilling permit will be valid for a period of one year from the date of approval.

After permit termination, a new application will be filed for approval for any future operations.

#### B) Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill-site and access route that I am familiar with the conditions which presently exist, that the statements made in this plan are, to the best of my knowledge and belief, true and correct, and that the work associated with the operation proposed herein will be preformed by The Houston **Exploration Company and its** contractors and subcontractors in conformity with this plan and terms and conditions with this plan and the terms and conditions under which it is approved.

William A. Ryan, Agent
Rocky Mountain Consulting

**Onsite Dates:** 

## THE HOUSTON EXPLORATION COMPANY

## NORTH HORSESHOE #9-16-6-21

LOCATED IN UINTAH COUNTY, UTAH SECTION 16, T6S, R21E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

**CAMERA ANGLE: SOUTHWESTERLY** 



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

**CAMERA ANGLE: NORTHERLY** 



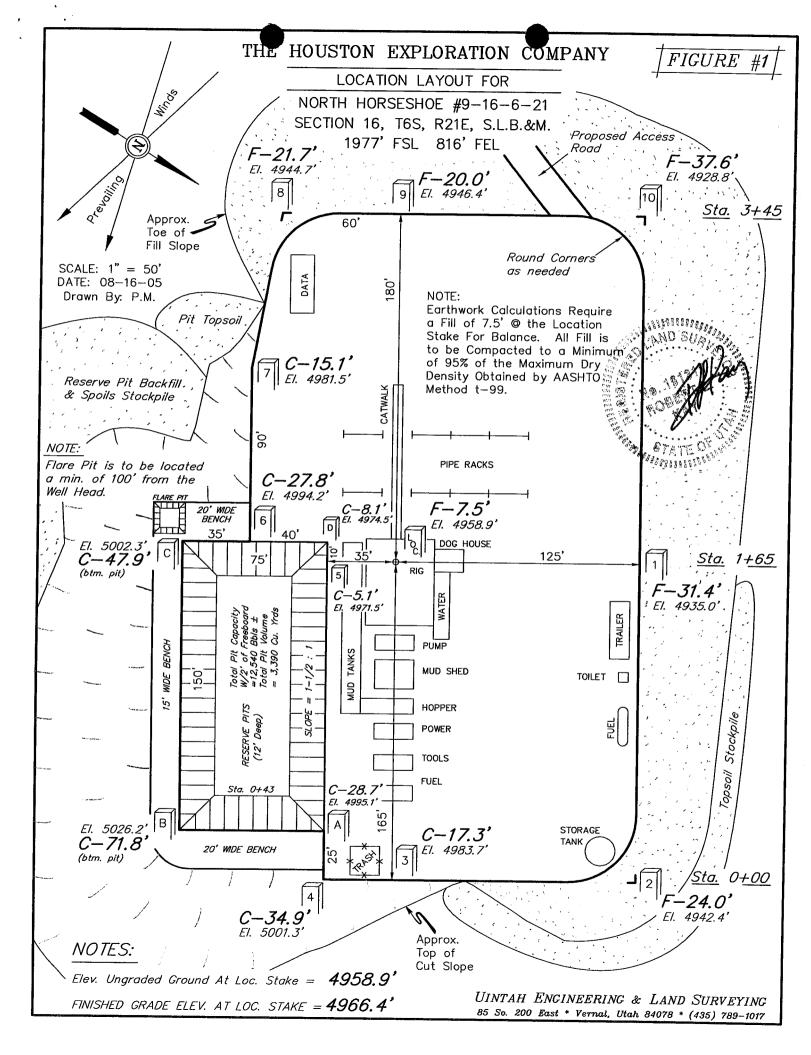
Uintah Engineering & Land Surveying 85 South 200 East Vernal, Utah 84078 435-789-1017 uels@uelsinc.com

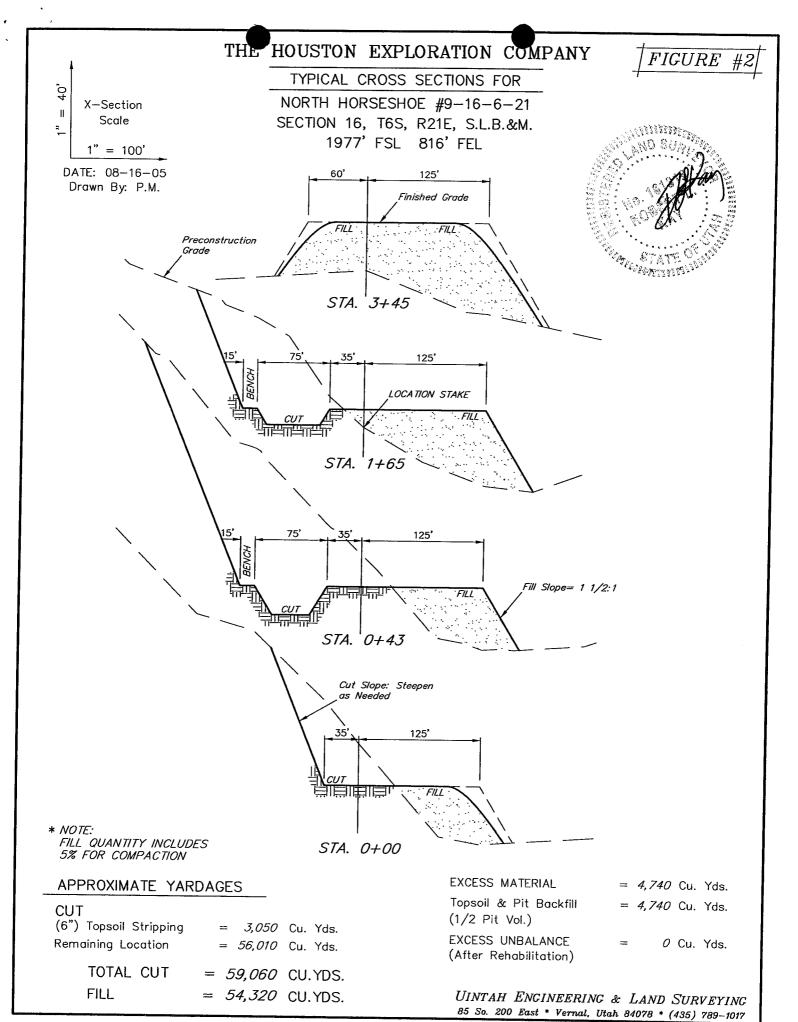
LOCATION PHOTOS

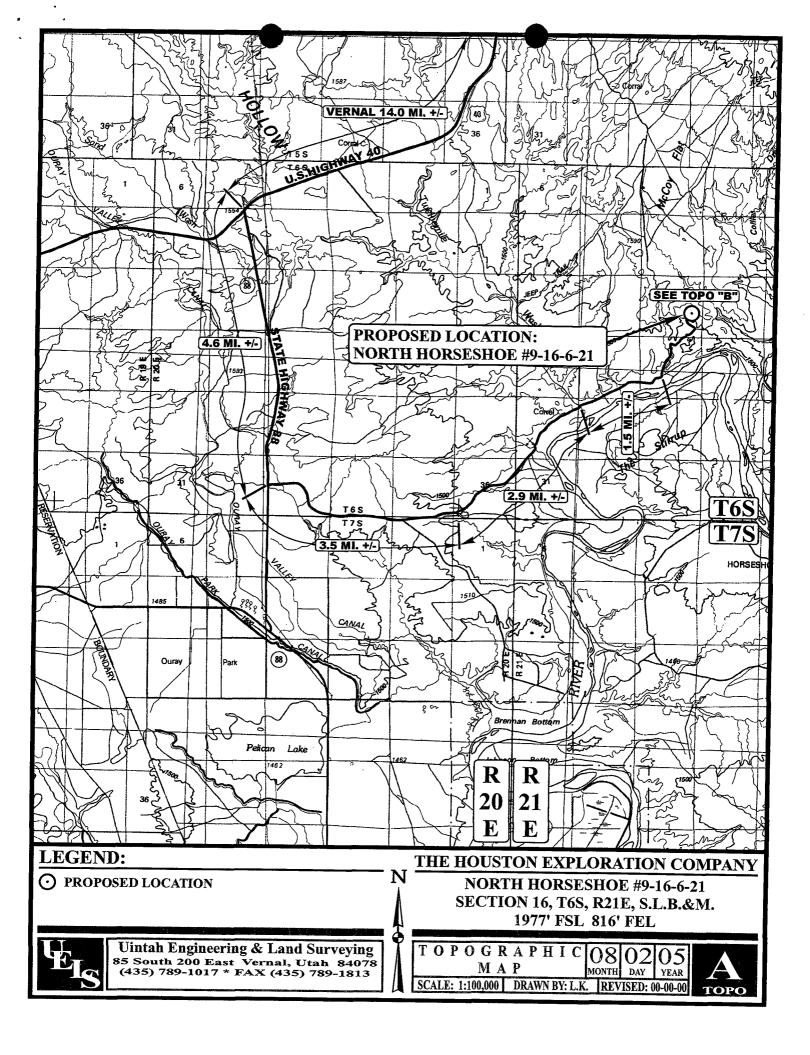
08 02 05 MONTH DAY YEAR

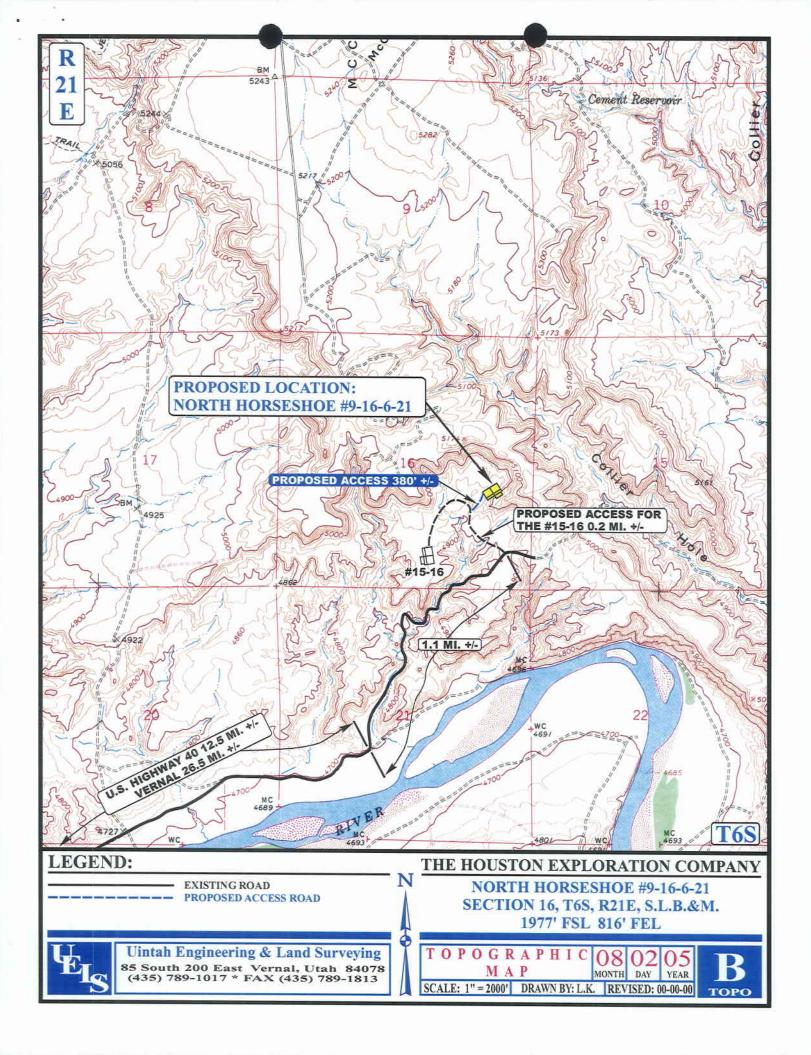
РНОТО

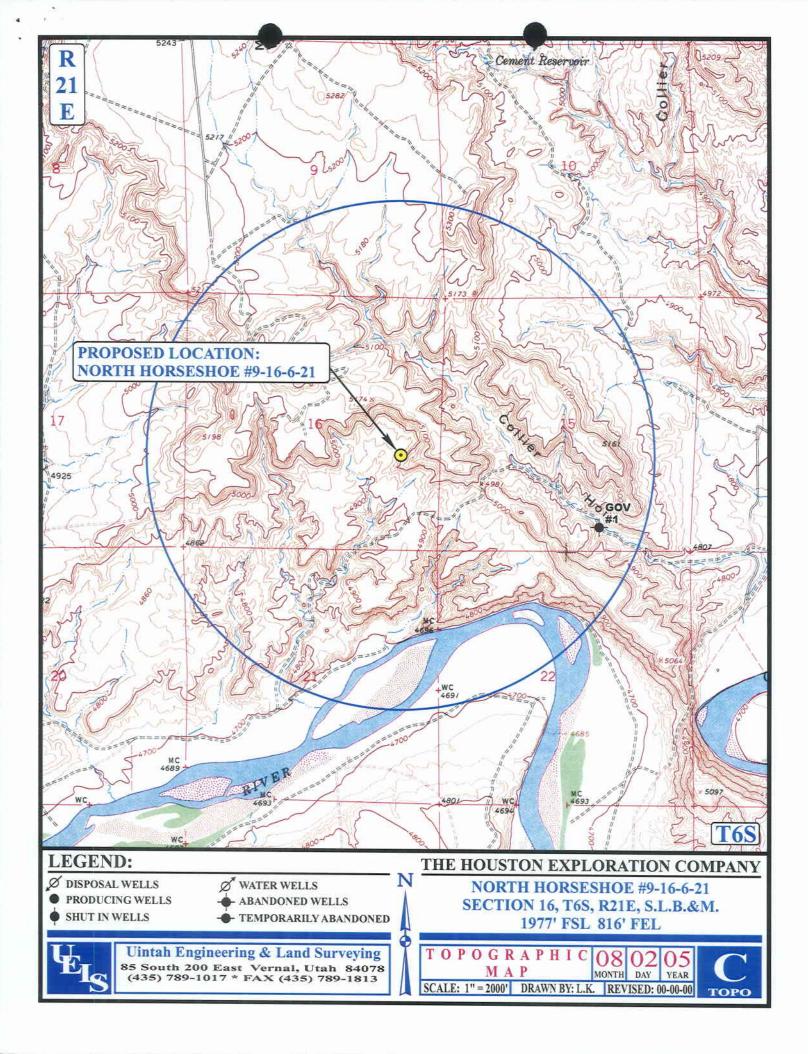
TAKEN BY: N.H. | DRAWN BY: L.K. | REVISED: 00-00-00

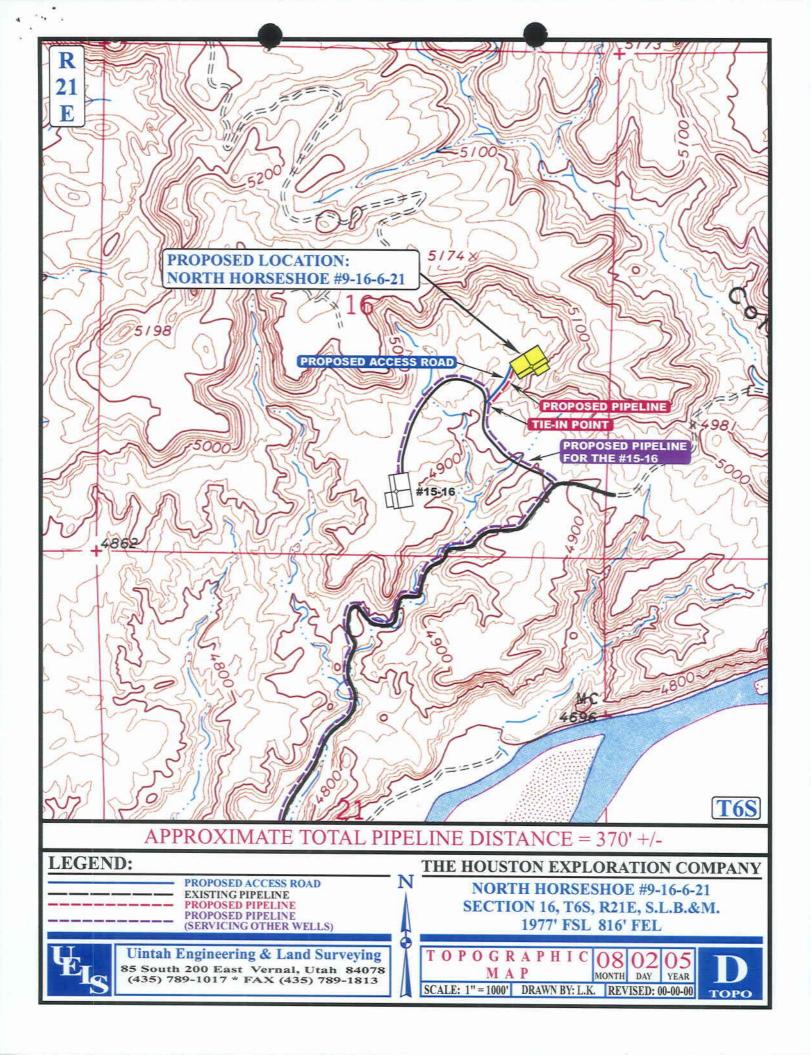




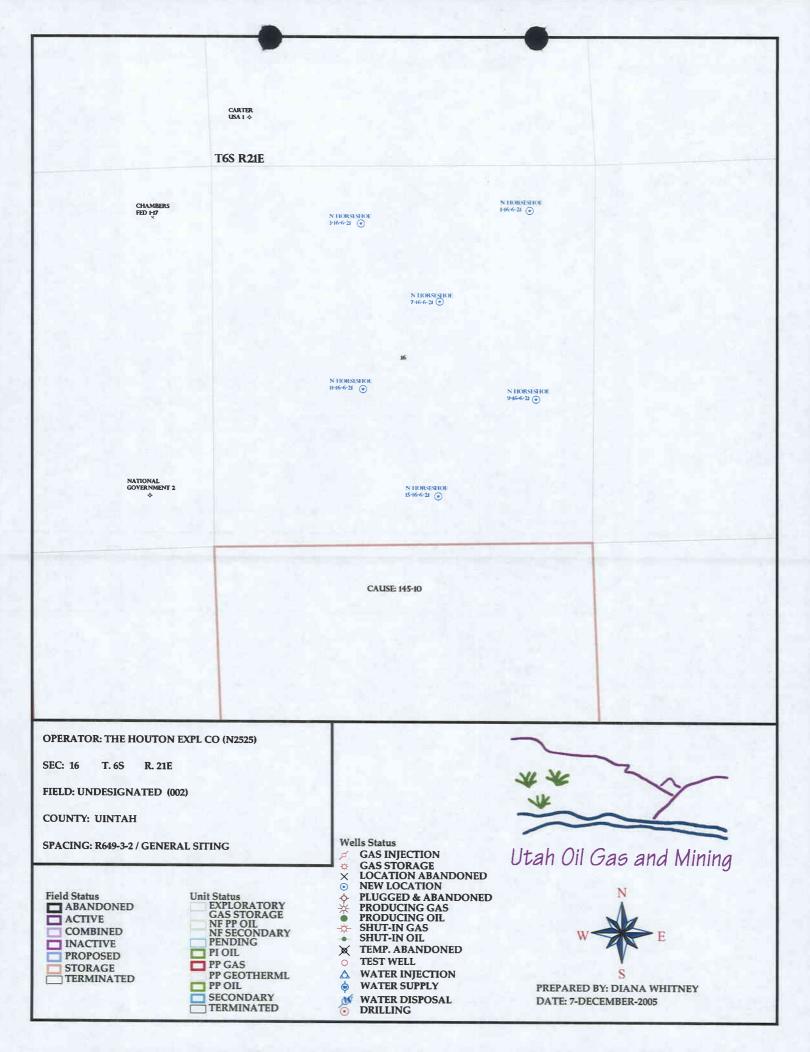








APD RECEIVED: 12/01/2005	API NO. ASSIGNED: 43-047-37439		
WELL NAME: N HORSESHOE 9-16-6-21  OPERATOR: HOUSTON EXPLORATION CO, ( N2525 )  CONTACT: BILL RYAN  PROPOSED LOCATION:  NESE 16 060S 210E  SURFACE: 1977 FSL 0816 FEL  BOTTOM: 1977 FSL 0816 FEL  UINTAH  UNDESIGNATED ( 2 )  LEASE TYPE: 3 - State			
LEASE NUMBER: ML-49317  SURFACE OWNER: 3 - State  PROPOSED FORMATION: MVRD  COALBED METHANE WELL? NO	LATITUDE: 40.29708 LONGITUDE: -109.5541		
Plat    Plat   Plat   Sond: Fed[] Ind[] Sta[] Fee[]   (No. 104155044 )   Potash (Y/N)   Oil Shale 190-5 (B) or 190-3 or 190-13   Water Permit   (No. T-76073 )   RDCC Review (Y/N)   (Date: )   NA Fee Surf Agreement (Y/N)   Ala Intent to Commingle (Y/N)	LOCATION AND SITING:  R649-2-3.  Unit  R649-3-2. General		
STIPULATIONS: 1- Spacing Ship  2- STATEMENT OF	BAGIS		



#### DIVISION OF OIL, GAS AND MINING APPLICATION FOR PERMIT TO DRILL STATEMENT OF BASIS

OPERATOR:	THE HOUSTON EXPLORATION COMPANY		
WELL NAME & NUMBER:	NORTH HORSESHOE 9-16-6-21		
API NUMBER:	43-047-37439		
LOCATION: 1/4,1/4 NE/SE sec: 1	6 TWP: 6S RNG: 21E, 1977 FSL 816FEL		
Geology/Ground Water:			
The Houston Ex. Co. proposes to s	et 2000 feet of surface casing cemented to the surface. The base of the		
moderately saline water is estimate	d at 4,000 feet. A search of Division of Water Rights records shows no		
water wells within a 10 000 foot ro	dius of the proposed location. The surface formation at this location is the		
expected to produce prolific acquire	ation is made up of discontinuous sands interbedded with shales and are not		
aquifers.	rs. The proposed surface casing should adequately protect any near surface		
aquireis.			
Reviewer: _ Brac	1 Hill <b>Date</b> : 12-20-05		
Ziovieweli <u>Biac</u>	Date. 12-20-05		
Surface:			
m 1:11:			
The predrill investigation of the surf	ace was performed on 12/15/2005. Ben Williams with UDWR and Jim Davis		
with SITLA were invited to this investigation by email on 12/08/05. Mr. Williams was present. A phone call was			
received from Mr. Davis stating he v	was ill and would not attend. Mr. Williams representing the UDWR stated the		
area is classified as high value yearlo	ong habitat for antelope and limited value yearlong habitat for deer. He did not		
recommend any restriction periods o	r actions to the Operator or SITLA for these species. He stated no other wildlife		
species are expected to be significan	tly affected. Mr. Williams also gave Ms. Stringham, representing The Houston		
Exploration Company, a UDWR rec	commended seed mix to be used when reserve pit and location are reclaimed.		
The location is on the west slope of a very steep side hill. Construction will be difficult consisting of a side			
slope cut of about 60 feet entailing movement of approximately 60,000 cu. yds. of material. The location is on a			
bench in rough topography about 0.5 miles north of the Green River floodplain. Proper installation and			
maintenance of a liner in the reserve pit is essential during drilling operations.			
This site is on State surface, with Sta	te minerals, and appears to be the best site for a location in the immediate area.		
<b>.</b>			
Reviewer: Floyd B	artlett		

#### **Conditions of Approval/Application for Permit to Drill:**

1. A synthetic liner with a minimum thickness of 16 mils with a felt pad under-layment shall be properly installed and maintained in the reserve pit.

OPERATOR: THE HOUSTON EXPLORATION COMPANY

WELL NAME & NUMBER: NORTH HORSESHOE 9-16-6-21

API NUMBER: 43-047-37439

LEASE: ML-49317 FIELD/UNIT: Undesignated

LOCATION: 1/4,1/4 NE/SE sec: 16 TWP: 6S RNG: 21E, 1977 FSL 816FEL

LEGAL WELL SITING: 460 F SEC. LINE; 460 F 1/4,1/4 LINE; 920 F ANOTHER WELL.

GPS COORD (UTM): 622895 E 4461524 N SURFACE OWNER: STATE OF UTAH (SITLA)

#### **PARTICIPANTS**

Floyd Bartlett (DOGM), Ginger Stringham (HOUSTON), Ben Williams (UDWR) Corey Stubbs (Stubbs & Stubbs Construction),

#### REGIONAL/LOCAL SETTING & TOPOGRAPHY

Section 16 is an isolated section owned by SITLA and surrounded by BLM lands with nearby private lands south along the Green river. The section is approximately 12 air miles south of Vernal and ½ mile north of the Green River on the south section line. The Green River area is known as Horseshoe Bend. McCoy Flat lies to the north of the section and contains relatively flat open country. Section 16 is generally in the breaks draining southerly toward the river. It is characterized by some flat ridges but steep draws and breaks are common. Finding suitable locations for wells without infringing on the adjacent ½/½ sections is difficult. The most direct and suitable accesses to the section is not as outlined in the APD. Suitable access can be obtained by following the Uintah County Twelve mile Wash road to the wells in the southeast ½ of the section and the paved seismic installation McCoy Flat road to the north part of the section.

The proposed North Horseshoe 9-16-6-21 well lies on a very steep side slope of a north-south secondary ridge. The cut on the east side of the location is 71.8 feet (which includes a reserve pit 12 feet deep). Center stake is on 7.5 feet of fill, which is planned to be compacted. Drainages in the area are ephemeral with the only perennial water in the area in the Green River, approximately ½ mile to the south. Approximately 380 feet of new road will be constructed to reach the location spurring off the access proposed for the proposed 15-16 well.

#### SURFACE USE PLAN

CURRENT SURFACE USE: Limited hunting and sightseeing.

PROPOSED SURFACE DISTURBANCE: Construct 380 feet of new road and construction of a well location 345'x 210' plus reserve pit and soil stockpile storage outside the described area.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: One well of unknown status as shown on attached 'TOPO C" map from GIS database.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: All production

facilities will be on location and added after drilling well. Pipeline will follow the edge of the proposed road 370 feet to a tie in with the proposed pipeline for the 15-16 well.

SOURCE OF CONSTRUCTION MATERIAL: All construction material will be borrowed from site during construction of location.

ANCILLARY FACILITIES: None will be required.

WILL DRILLING AT THIS LOCATION GENERATE PUBLIC INTEREST OR CONCERNS? EXPLAIN: Unlikely. Oilfield activity is common in the area. The location is not within the Green River floodplain.

#### WASTE MANAGEMENT PLAN:

Drilled cuttings will be settled into reserve pit. Liquids from pit will be allowed to evaporate. Formation water will be confined to storage tanks. Commercial contractor will handle sewage facilities, storage and disposal. Trash will be contained in trash baskets and hauled to an approved land fill.

#### ENVIRONMENTAL PARAMETERS

AFFECTED FLOODPLAINS AND/OR WETLANDS: None. The Green River floodplain is approximately .5 miles to the south.

FLORA/FAUNA: Because of the steepness of the slope the site is poorly vegetated Existing vegetation is a desert type which includes rye grass, curly mesquite, shadscale, ephedra, Indian ricegrass, annual mustard and broom snakeweed.

Dominant fauna is pronghorn, rodents, songbirds, raptors, deer, bobcat, coyote, and small mammals.

SOIL TYPE AND CHARACTERISTICS: Rubbley sandy loam with numerous surface sandstone boulders.

EROSION/SEDIMENTATION/STABILITY: Although the location will be difficult to construct, no stability problems are anticipated with the construction and operation of the location.

PALEONTOLOGICAL POTENTIAL: none observed.

#### RESERVE PIT

CHARACTERISTICS: 150' by 75' and 12' deep. The reserve pit is planned in an area of cut on the south east side of the location. No stabilization problems are expected.

LINER REQUIREMENTS (Site Ranking Form attached): A liner will be required for reserve pit. Sensitivity score of 25, rating as Level I, Highly Sensitive. Operator routinely installs a 16 mil. liner in all reserve pits.

#### SURFACE RESTORATION/RECLAMATION PLAN

AS PER SITLA.

SURFACE AGREEMENT: AS PER SITLA.

CULTURAL RESOURCES/ARCHAEOLOGY: Site was inspected by Sagebrush Archeological Consultants on 10/5/2005. A report of this investigation will be placed in the file.

#### OTHER OBSERVATIONS/COMMENTS

Ben Williams representing the UDWR stated the area is classified as high value yearlong habitat for antelope and limited value yearlong habitat for deer. He did not recommend any restrictions to the Operator or SITLA.

#### **ATTACHMENTS**

Photos of site have been taken and placed on file.

Floyd Bartlett
DOGM REPRESENTATIVE

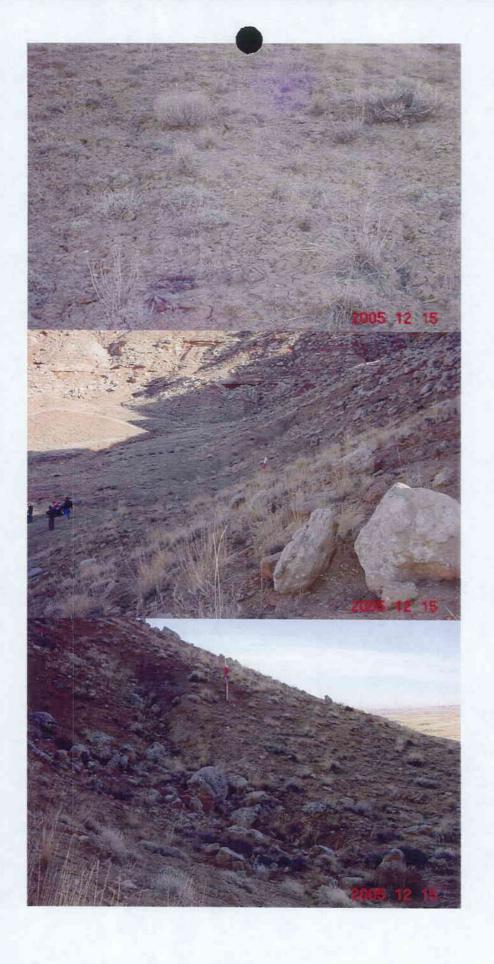
12/15/2005 09:45 AM DATE/TIME

#### Evaluation Ranking Criteria and Ranking Sore For Reserve and Onsite Pit Liner Requirements

Site-Specific Factors	Ranking	Site Ranking
		<u>Dicc maning</u>
Distance to Groundwater (feet) >200	0	
100 to 200	0 5	
75 to 100	10	
25 to 75	15	<u>o</u>
<25 or recharge area	20	_
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200 < 100	15 20	2
7 100	20	0
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	0
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	0
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>20</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid containing significant levels of	15	
hazardous constituents	20	5
Dec. 22 G. 10 1		
Drill Cuttings Normal Rock	0	
Salt or detrimental	0 10	0
	10	
Annual Precipitation (inches) <10	0	
10 to 20	0 5	
>20	10	0
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	0
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	0

Final Score 25 (Level I Sensitivity)

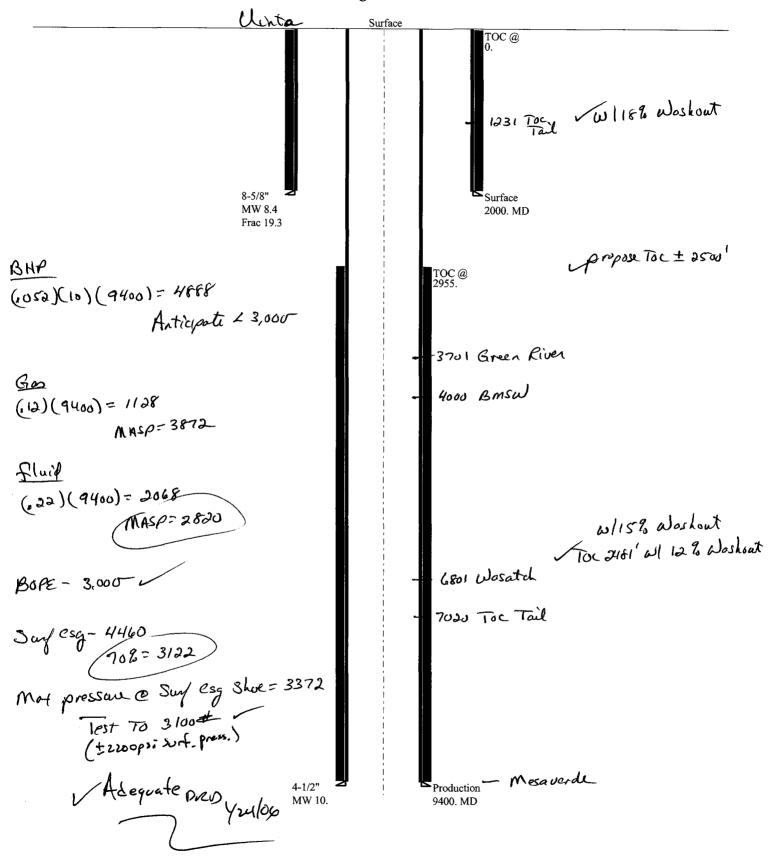
Sensitivity Level I = 20 or more; total containment is required.
Sensitivity Level II = 15-19; lining is discretionary.
Sensitivity Level III = below 15; no specific lining is required.





## -06 Houston N Horseshoe 9-6-6-21

Casing Schematic



Well name:

01-06 Houston N Horseshoe 9-16-6-21

Operator:

**Houston Exploration Company** 

String type:

Surface

Project ID:

43-047-37439

Location:

**Uintah County** 

D	esi	gn	parameters:
_			

**Collapse** 

Mud weight:

8.400 ppg

Design is based on evacuated pipe.

Minimum design factors:

Collapse: Design factor

1.125

**Environment:** 

H2S considered?

Surface temperature: 65 °F 93 °F Bottom hole temperature:

Temperature gradient:

1.40 °F/100ft

Minimum section length:

250 ft

No

Burst:

Design factor

1.00

1.80 (J)

1.80 (J) 1.60 (J) Cement top:

0 ft

**Burst** 

Max anticipated surface

pressure:

1,760 psi 0.120 psi/ft

Internal gradient: Calculated BHP

2,000 psi

No backup mud specified.

**Tension:** 

8 Round STC:

8 Round LTC: Buttress: Premium:

1.50 (J) Body yield: 1.50 (B)

Tension is based on buoyed weight. Neutral point: 1,749 ft

Non-directional string.

Re subsequent strings:

Next setting depth:

9,400 ft Next mud weight: 10.000 ppg Next setting BHP: 4,883 psi Fracture mud wt: 19.250 ppg

Fracture depth: 2,000 ft Injection pressure

2,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2000	8.625	36.00	J-55	ST&C	2000	2000	7.7	143.6
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	873	3450	3.953	2000	4460	2.23	63	434	6.89 J

Prepared

Clinton Dworshak

Utah Div. of Oil & Mining

Phone: 801-538-5280 FAX: 810-359-3940

Date: January 19,2006 Salt Lake City, Utah

Collapse is based on a vertical depth of 2000 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

01-06 Houston N Horseshoe 9-16-6-21

Operator:

**Houston Exploration Company** 

String type:

Production

Design is based on evacuated pipe.

Project ID:

43-047-37439

Location:

**Collapse** 

**Uintah County** 

Minimum design factors:

Collapse: Design factor

1.125

**Environment:** 

H2S considered? Surface temperature:

No 65 °F 197 °F

Bottom hole temperature: Temperature gradient:

1.40 °F/100ft

Minimum section length: 1,500 ft

Burst:

Design factor

1.00

Cement top:

2,955 ft

**Burst** 

Max anticipated surface

pressure:

Design parameters:

Mud weight:

3,755 psi

10.000 ppg

Internal gradient: Calculated BHP

0.120 psi/ft 4,883 psi

No backup mud specified.

**Tension:** 

8 Round STC: 8 Round LTC:

Buttress: Premium:

Body yield:

1.60 (J) 1.50 (J) 1.50 (B)

1.80 (J)

1.80 (J)

Tension is based on buoyed weight. Neutral point: 7,995 ft

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominai Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	9400	4.5	11.60	N-80	LT&C	9400	9400	3.875	217.9
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	4883	6350	1.300	4883	7780	1.59	93	223	2.40.1

Prepared

Clinton Dworshak

Utah Div. of Oil & Mining

Phone: 801-538-5280

FAX: 810-359-3940

Date: January 19,2006 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9400 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

#### Clinton Dworshak - cement sks changes

From:

eric bowedn <starman686@yahoo.com>

To:

<cli>clintondworshak@utah.gov>

Date:

1/18/2006 1:39 PM Subject: cement sks changes

here are the cement sks changes that you reqested.

Yahoo! Photos - Showcase holiday pictures in hardcover Photo Books. You design it and we'll bind it!

### THE HOUSTON EXPLORATION COMPANY

WELL NAME	API	LEAD	TAIL
		sks	sks
NH 9-16-6-21	43-047-37439	415	514
NH 3-16-6-21	43-047-37391	415	<u>51</u> 4
NH 13-16-6-21	43-047-37575	415	514
NH 15-2-6-21	43-047-37477	415	514
NH 13-2-6-21	43-047-37476	415	514
NH 11-16-6-21	43-047-37441	499	515
NH 7-16-6-21	43-047-37438	499	515
NH 1-16-6-21	43-047-37442	499	515
NH 15-16-6-21	43-047-37440	499	515
NH 12-7-6-22	43-047-37392	415	515
NH 16-9-6-22	43-047-37393	415	515
NH 14-10-6-22	43-047-37394	415	515
NH 4-15-6-22	43-047-37396	415	515
NH 2-15-6-22	43-047-37395	415	515
NWH 13-36-6-23	43-047-37463	357	526
NWH 15-36-6-23	43-047-37464	357	526
NWH 11-36-6-23	43-047-37462	357	526
NWH 14-32-6-23	43-047-37478	357	526
NWH 2-32-6-23	43-047-37399	357	526
NWH 8-32-6-23	43-047-37401	357	526
NWH 10-32-6-23	43-047-37400	357	526
NWH 12-32-6-23	43-047-37397	357	526
NWH 16-32-6-23	43-047-37398	357	526
<u>G 2-2-6-19</u>	43-047-37561	153	1,050
G 16-2-6-19	43-047-37562	153	1,050
<u>G 1-2-6-19</u>	43-047-37563	153	1,050
G 3-2-6-19	43-047-37568	153	1,050



State of Utah

#### **Department of Natural Resources**

MICHAEL R. STYLER Executive Director

Division of Oil, Gas & Mining

> JOHN R. BAZA Division Director

JON M. HUNTSMAN, JR. Governor

> GARY R. HERBERT Lieutenant Governor

> > March 9, 2006

**Houston Exploration Company** 1100 Louisiana, Suite 2000 Houston, TX 77002

North Horseshoe 9-16-6-21 Well, 1977' FSL, 816' FEL, NE SE, Sec. 16, Re:

T. 6 South, R. 21 East, Uintah County, Utah

#### Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-37439.

Sincerely,

Gil Hunt

Associate Director

pab **Enclosures** 

cc:

**Uintah County Assessor** 

**SITLA** 

Operator:	Houston Exploration Company	
Well Name & Number	North Horseshoe 9-16-6-21	
API Number:	43-047-37439	
Lease:	ML-49317	

Location: NE SE

Sec. 16

T. 6 South

**R.** 21 East

#### **Conditions of Approval**

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

#### 2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

Page 2 43-047-37439 March 9, 2006

- 5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.
- 6. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

### **STATE OF UTAH**

DEPARTMENT OF NATURAL RESOURCES

5.	LEASE DESIGNATION AND SERIAL	NUMBER:

•	DIVISION OF OIL, GAS AND MIN	NING	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-49317
SUNDR	Y NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to dril drill horizonta	I new wells, significantly deepen existing wells below curr I laterals. Use APPLICATION FOR PERMIT TO DRILL fo	ent bottom-hole depth, reenter plugged wells, or to	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WEL	L GAS WELL 🗸 OTHER _	CUNFIDENTIAL	8. WELL NAME and NUMBER: North Horseshoe 9-16-6-21
2. NAME OF OPERATOR:  The Houston Exploration	Company	*	9. API NUMBER: 4304737439
3. ADDRESS OF OPERATOR:	•	PHONE NUMBER:	10. FIELD AND POOL, OR WILDCAT:
1100 Louisiana, Suite 2000	Houston STATE TX ZIP	77002 (713) 830-6800	Undesignated
FOOTAGES AT SURFACE: 1977	' FSL & 816' FEL		COUNTY: <b>Uintah</b>
QTR/QTR, SECTION, TOWNSHIP, RA	ANGE, MERIDIAN: NESE 16 6S 2	1E	STATE: UTAH
11. CHECK APP	PROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPO	ORT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
✓ NOTICE OF INTENT	ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION
(Submit in Duplicate)	ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start:	CASING REPAIR  CHANGE TO PREVIOUS PLANS	NEW CONSTRUCTION  OPERATOR CHANGE	TEMPORARILY ABANDON
10/1/2006	CHANGE TO PREVIOUS PLANS  CHANGE TUBING	PLUG AND ABANDON	Using Repair Vent or Flare
SUBSEQUENT REPORT	CHANGE WELL NAME	PLUG BACK	WATER DISPOSAL
(Submit Original Form Only)	CHANGE WELL STATUS	PRODUCTION (START/RESUME)	WATER SHUT-OFF
Date of work completion:	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE	OTHER:
	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION	
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show all po	ertinent details including dates, depths, volun	nes, etc.
cut of 59,060 cubic yards located in Section 16, To	s. The new location will have a total	al cut of 11,010 cubic yards. The 2162' FSL & 842' FEL in the N	ESE. Please find the attached plats.
William A Ryan, Agent 290 S 800 E Vernal, UT 84078 435-789-0968	622887X 44615747	40, 297585	
	Utah Di	vision of Process back	,
	Date: So	0.011	
	By: Next		
NAME (PLEASE PRINT) William A	A Ryan	Agent	
SIGNATURE William	a Rya	DATE 8/10/2006	
This space for State use only)		COPY SEATUROPERATOR Date: 2 100 Initiate: RID	AUG 1 6 2006
		DIV	OF OIL CAS & MINING

### THE HOUSTON EXPLORATION COMPANY North Horseshoe #9-16-6-21 Section 16, T6S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14 MILES TO THE JUNCTION OF STATE HIGHWAY 88. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 88 APPROXIMATELY 4.7 MILES TO THE INTERSECTION OF A 3000 SOUTH STREET. EXIT LEFT AND PROCEED IN AN EASTERLY DIRECTION ALONG 3000 SOUTH STREET APPROXIMATELY 3.5 MILES TO THE INTERSECTION OF COUNTY ROAD 2360; EXIT LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION ALONG COUNTY ROAD 2360 APPROXIMATELY 2.9 MILES TO THE INTERSECTION OF THE TWELVE MILE WASH ROAD; CONTINUE ON COUNTY ROAD 2360 IN A NORTHEASTERLY DIRECTION APPROXIMATELY 2.6 MILES TO THE PROPOSED ACCESS ROAD FOR THE NORTH HORSESHOE #15-16-6-21; FOLLOW #15-16-6-21 ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE PROPOSED ACCESS ROAD; FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 600 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 27.9 MILES.

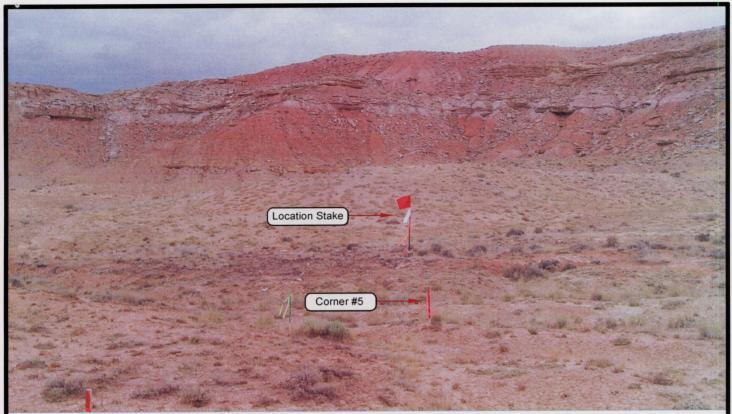


PHOTO VIEW: FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHEASTERLY

#### THE HOUSTON EXPLORATION COMPANY

North Horseshoe 9-16-6-21 SECTION 16, T6S, R21E, S.L.B.&M. 2162' FSL & 842' FEL LOCATION PHOTOS

DATE TAKEN: 07-28-06

DATE DRAWN: 08-04-06

TAKEN BY: K.R.K.

DRAWN BY: BJ.Z.

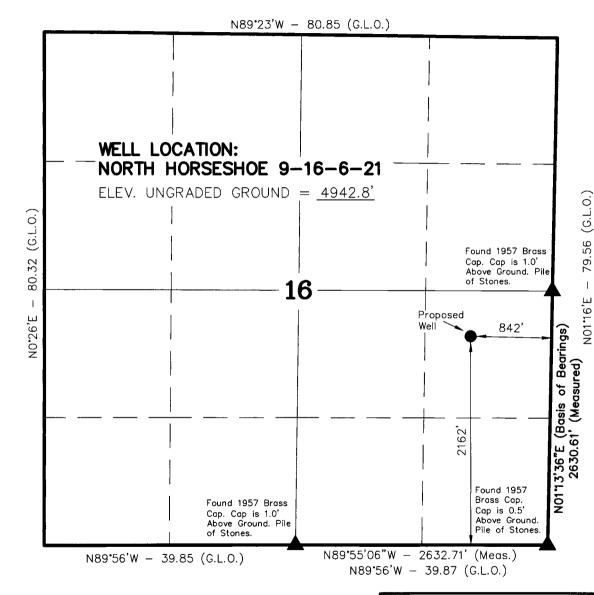
REVISED:

Timberline Land Surveying, Inc.

38 West 100 North Vernal, Utah 84078 (435) 789-1365

SHEET 1 OF 10

### T6S, R21E, S.L.B.&M.



#### ▲ = SECTION CORNERS LOCATED

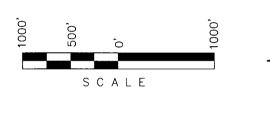
BASIS OF ELEVATION IS BENCH MARK 36 EAM 1964 LOCATED IN THE SW 1/4 OF SECTION 17, T6S, R21E, S.L.B.&M. THE ELEVATION OF THIS BENCH MARK IS SHOWN ON THE VERNAL SE 7.5 MIN. QUADRANGLE AS BEING 4925'.

NORTH HORSESHOE 9-16-6-21 (Proposed Well Head) NAD 83 Autonomous

LATITUDE = 40° 17′ 51.14″ LONGITUDE = 109° 33′ 17.38″

#### THE HOUSTON EXPLORATION COMPANY

WELL LOCATION, NORTH HORSESHOE 9-16-6-21, LOCATED AS SHOWN IN THE NE 1/4 SE 1/4 OF SECTION 16, T6S, R21E, S.L.B.&M. UINTAH COUNTY, UTAH.



#### NOTES:

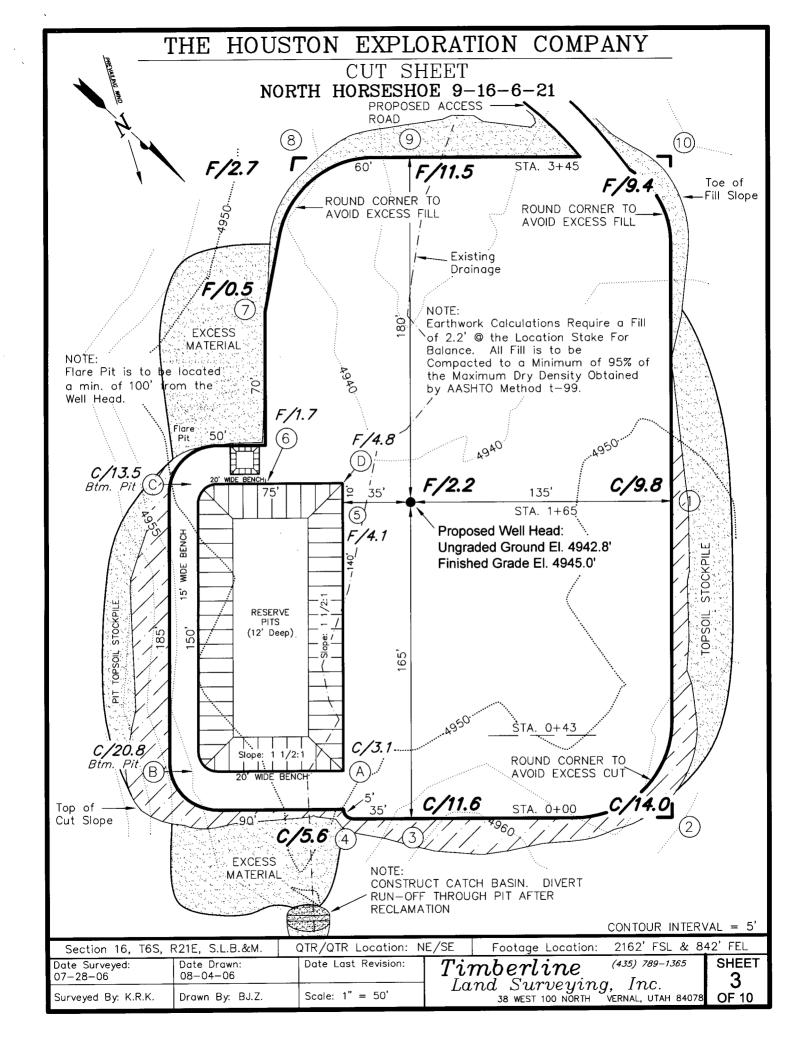
- 1. Well footages are measured at right angles to the Section Lines.
- 2. Bearings are based on Global Positioning Satellite observations.

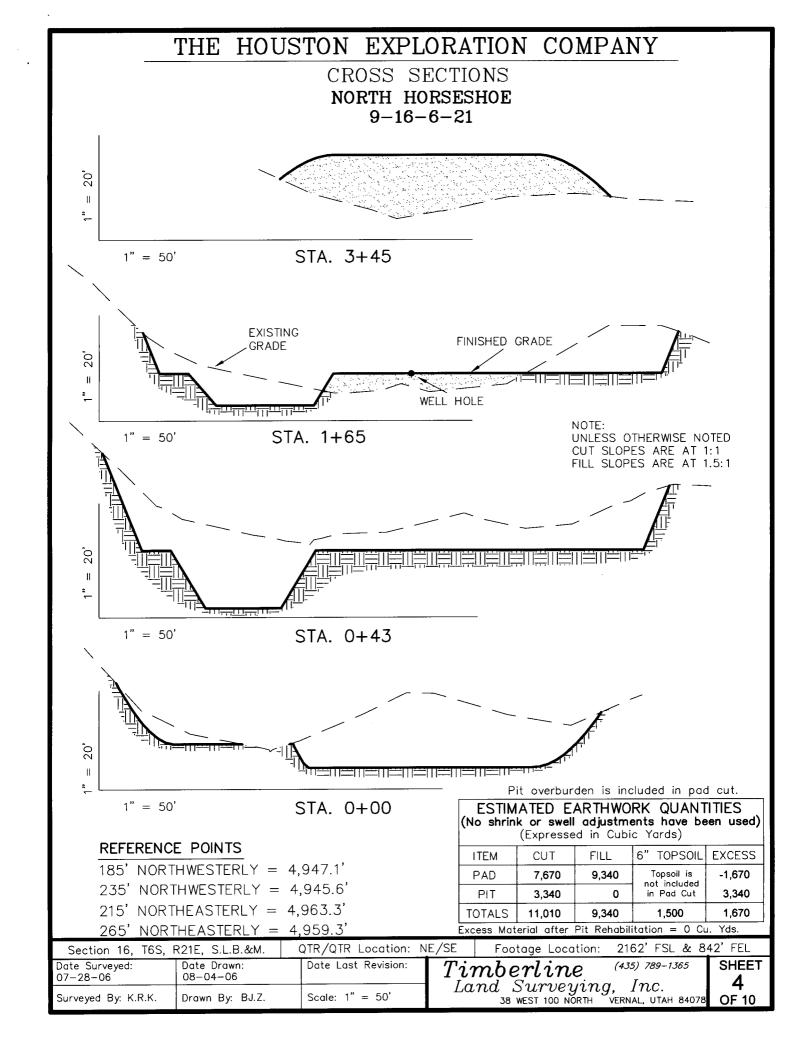
THIS IS TO CERTIFY THE ABOVE PLAT WAS PREPARED FROM HELD WONDS OF ACTUAL SURVEYS MADE BY ME OF AND CORRECT TO THE BEST OF MY KNOWLEDGE AND NOT 162251 KOLBY R. SARVEYOR

## TIMBERLINE LAND SURVEYING, INC.

38 WEST 100 NORTH. - VERNAL, UTAH 84078 (435) 789-1365

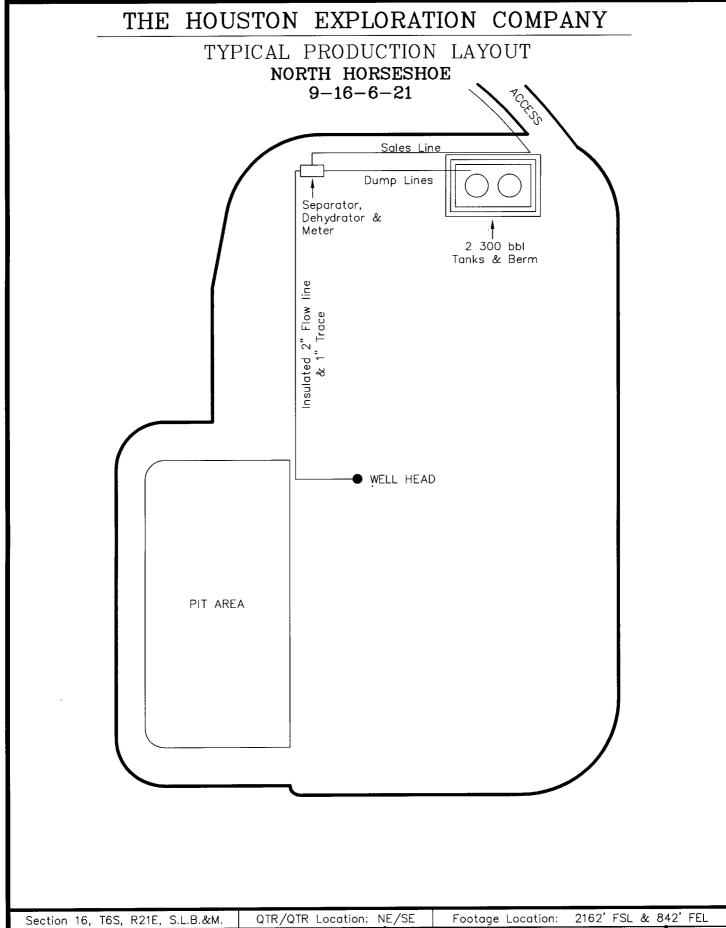
DATE SURVEYED: 07-28-06	SURVEYED BY: K.R.K.	SHEET
DATE DRAWN: 08-02-06	DRAWN BY: BJ.Z.	2
SCALE: 1" = 1000'	Date Last Revised:	OF 10



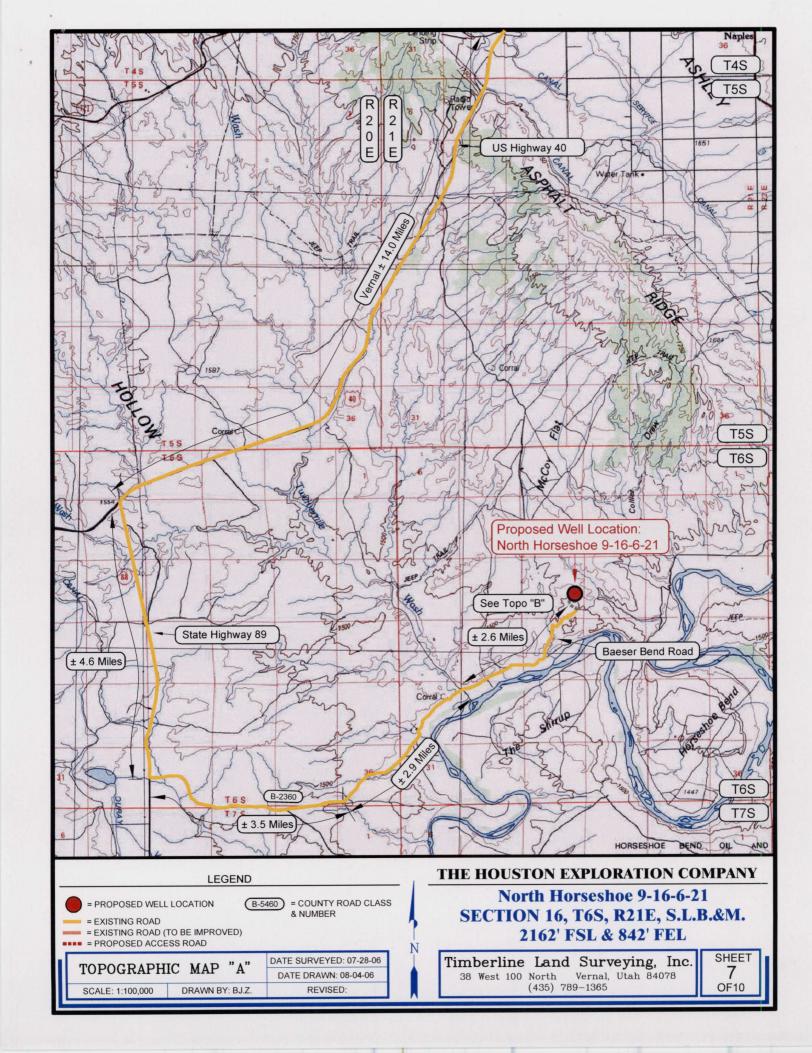


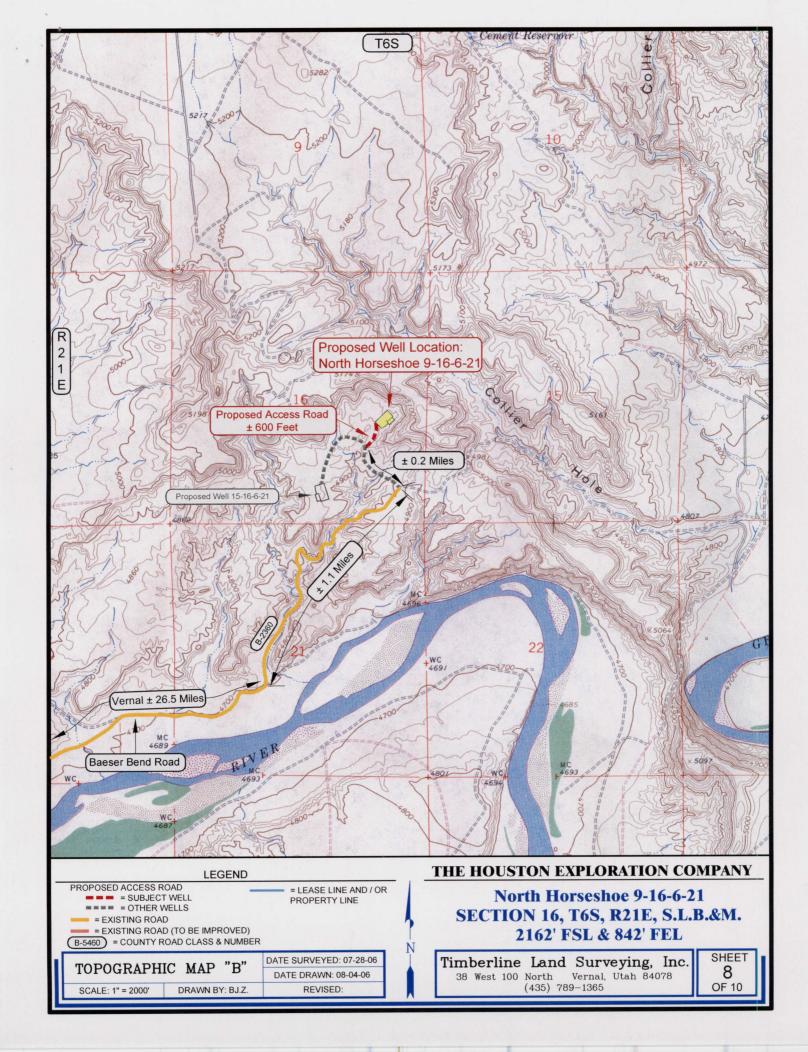
# HOUSTON EXPLORATION COMPANY THE TYPICAL RIG LAYOUT NORTH HORSESHOE 9-16-6-21 180, DOG HOUSE 135' WATER RIG 140, PUMP MUD RESERVE PITS VOLUME: 12,400 bbls W / Freeboard MUD SHED TOILET \_ 150, HOPPER POWER TOOLS FUEL STORAGE TANK/

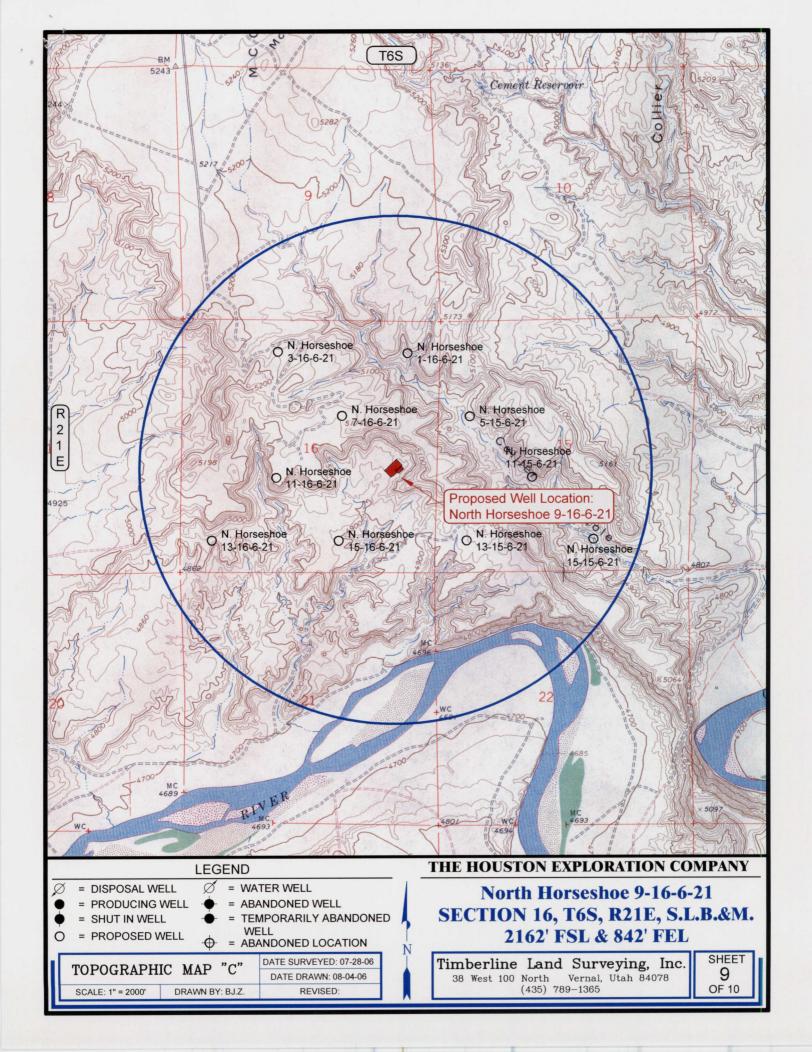
Section 16, T6S,	R21E, S.L.B.&M.	QTR/QTR Location: N	E/SE	Footage Location:	2162' FSL & 84	12' FEL
Date Surveyed: 07-28-06	Date Drawn: 08-04-06	Date Last Revision:		mberline	(435) 789-1365	SHEET
Surveyed By: K.R.K.	Drawn By: BJ.Z.	Scale: 1" = 50'	La	nd Surveying 38 WEST 100 NORTH	$J, \;\; I \mathcal{T} \! \mathcal{U} C.$ VERNAL, UTAH 84078	OF 10

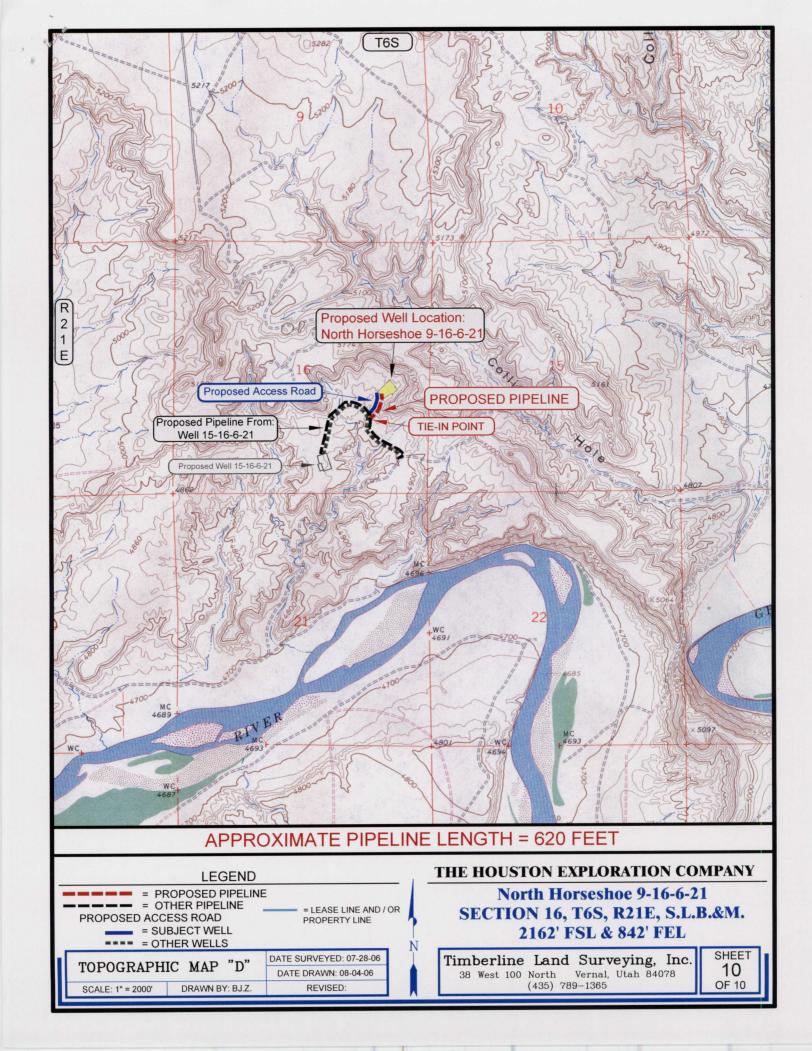


Section 16, T6S,	R21E, S.L.B.&M.	QTR/QTR Location: N	NE/SE	Footage Location:	2162' FSL & 8	42' FEL
Date Surveyed: 07—28—06	Date Drawn: 08-04-06	Date Last Revision:		mberline <sub>.</sub>	(435) 789-1365	SHEET
Surveyed By: K.R.K.	Drawn By: BJ.Z.	Scale: 1" = 50'	La	nd Surveying 38 WEST 100 NORTH	$j,\ Inc.$ vernal, utah 84078	OF 10









## STATE OF UTAH

CONFIDENTELL

DEPARTMENT OF NATURAL RESOURCES

		ML-49317	
	SUNDRY	NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do i	not use this form for proposals to drill n	ew wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to terals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7. UNIT OF CA AGREEMENT NAME:
1. T	PE OF WELL OIL WELL		8. WELL NAME and NUMBER:
2 1	AME OF OPERATOR:	GAS WELL W. STILL	North Horseshoe 9-16-6-21
	e Houston Exploration (	Company	4304737439
	DDRESS OF OPERATOR: 00 Louisiana, Suite 2000	Houston STATE TX 2IP 77002 PHONE NUMBER: (713) 830-6800	10. FIELD AND POOL, OR WILDCAT: Undesignated
	OCATION OF WELL	STATE 1X ZIP 17002 (710) 830-0000	Ondesignated
FC	DOTAGES AT SURFACE: 2162'	FSL & 842' FEL	соинту: Uintah
Q.	TR/QTR, SECTION, TOWNSHIP, RAN	ge, meridian: NESE 16 6S 21E	STATE: UTAH
11.	CHECK APP	ROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
	TYPE OF SUBMISSION	TYPE OF ACTION	
Ø	NOTICE OF INTENT	ACIDIZE DEEPEN	REPERFORATE CURRENT FORMATION
	(Submit in Duplicate)	ALTER CASING FRACTURE TREAT	SIDETRACK TO REPAIR WELL
	Approximate date work will start:	CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON
		CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	TUBING REPAIR
$\Box$	CURCEOUENT REPORT	CHANGE TUBING PLUG AND ABANDON	VENT OR FLARE
	SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion:	CHANGE WELL NAME PLUG BACK	WATER CHUT OFF
		CHANGE WELL STATUS PRODUCTION (START/RESUME)  COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE	✓ OTHER: Extension
		CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION	W OTHER: EXTENSION
12	DESCRIBE BRODOSED OR CO	DMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volume	as atc
		•	
Οþ	erator respectfully requ	ests to extend approval for the subject location for one year.	
		. I the	
		Approved by the Utah Division of	
		Utah Division of	
		Oil, Gas and Mining	
		Date: 03-06 78-7	
		By:	COPY SENT TO OPERATOR
			Dala:
		3	Initials: KM
NAM	E (PLEASE PRINT) Ginger Str	ingham TITLE Regulatory Agent	1
cio:	NATURE ALANA	DATE 2/26/2007	
OIGI	LATURE THE	Unit .	

(This space for State use only)



### **Application for Permit to Drill** Request for Permit Extension

Validation

(this form should accompany the Sundry Notice requesting permit extension) API: 4304737439 North Horseshoe 9-16-6-21 Well Name: Section 16, Township 6 South, Range 21 East NESE Location: Company Permit Issued to: The Houston Exploration Company Date Original Permit Issued: 3/9/2006 The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified. If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes □ No ☑ Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes□No☑ Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes□No☑ Have there been any changes to the access route including ownership, or rightof-way, which could affect the proposed location? Yes ☐ No ☑ Has the approved source of water for drilling changed? Yes□No☑ Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes□No☑ Is bonding still in place, which covers this proposed well? Yes ☑No ☐ 2/26/2007 Date Title: Regulatory Agent Representing: The Houston Exploration Company

### Division of Oil, Gas and Mining

#### OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2 CDW

Change of Operator (Well Sold)
--------------------------------

Change of Operator (Well Sold)				X -	Operato	r Merger			
The operator of the well(s) listed below has changed, effective:			6/1/2007						
FROM: (Old Operator):		******		TO: (New O	perator):				
N2525 - The Houston Exploration Company				N6965-Forest (		ition			
1100 Louisiana, Suite 2000				1	h St, Suite				
Houston, TX 77002					, CO 80202				
Phone: 1-(713) 830-6800				Phone: 1 (303)	812-1755				
CA No.				Unit:					
	SEC 7	ΓWN	RNG	API NO	ENTITY	LEASE	WELL	WELL	
					NO	TYPE	TYPE	STATUS	
SEE ATTACHED LIST							<u> </u>		
OPERATOR CHANGES DOCUMENTA	ATIO	N							
Enter date after each listed item is completed	A110	11							
1. (R649-8-10) Sundry or legal documentation wa	s receiv	ved fr	om the	FORMER one	rator on:	7/30/2007			
2. (R649-8-10) Sundry or legal documentation wa						7/30/2007	-		
3. The new company was checked on the <b>Departm</b>				-			_	7/31/2007	
4a. Is the new operator registered in the State of U		Com	illel ce	Business Numb		571171-0143			
4b. If <b>NO</b> , the operator was contacted contacted of				Dusiness Numb	CI.	3/11/1-0143	-		
5a. (R649-9-2)Waste Management Plan has been re-				DIDIACE					
•				IN PLACE	•				
5b. Inspections of LA PA state/fee well sites compl									
5c. Reports current for Production/Disposition & Sundries on: YES									
6. Federal and Indian Lease Wells: The BL					merger, na	me change,			
or operator change for all wells listed on Federa	d or Inc	dian le	eases o	n:	BLM	7/31/2007	BIA	•	
7. Federal and Indian Units:									
The BLM or BIA has approved the successor of unit operator for wells listed on:									
8. Federal and Indian Communization Agreements ("CA"):									
The BLM or BIA has approved the operator for all wells listed within a CA on:									
9. Underground Injection Control ("UIC") The Division has approved UIC Form 5, Transfer of Authority to									
Inject, for the enhanced/secondary recovery uni	it/proje	ct for	the wa	ter disposal wel	l(s) listed o	n:	n/a	-	
DATA ENTRY:									
1. Changes entered in the Oil and Gas Database				8/27/2007					
2. Changes have been entered on the Monthly Op	erator	Char	ige Sp			8/27/2007			
3. Bond information entered in RBDMS on:  8/27/2007									
4. Fee/State wells attached to bond in RBDMS on:				8/27/2007					
<ul><li>5. Injection Projects to new operator in RBDMS o</li><li>6. Receipt of Acceptance of Drilling Procedures for</li></ul>		/NI		n/a	7/20/2007				
6. Receipt of Acceptance of Drilling Procedures for APD/New on: 7/30/2007  BOND VERIFICATION:									
				(22(251					
<ol> <li>Federal well(s) covered by Bond Number:</li> <li>Indian well(s) covered by Bond Number:</li> </ol>				6236351					
	(a) liete	ad oor	ered b	n/a v Bond Number		6219062			
3a. (R649-3-1) The <b>NEW</b> operator of any fee well(s) listed covered by Bond Number  6218963  3b. The <b>FORMER</b> operator has requested a release of liability from their bond on: not yet									
of the x of the period has requested a release	or mac	Jilley 1	10111 (11	en bond on.	not yet	•			
LEASE INTEREST OWNER NOTIFICA	ATIO	N:							
4. (R649-2-10) The <b>FORMER</b> operator of the fee v	wells ha	as bee	n conta	acted and inform	ned by a lett	ter from the D	ivision		
of their responsibility to notify all interest owner					8/1/2007				
COMMENTS:				· · · · · · · · · · · · · · · · · · ·					

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS AND MINING  5. LEASE DESIGNATION A See Attached Lis						
SUNDRY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:					
Do not use this form for proposals to drill n drill horizontal la	new wells, significantly deepen existing wells below cur aterals. Use APPLICATION FOR PERMIT TO DRILL to	rrent bottom-hole depth, reenter plugged wells, or to form for such proposals.	7. UNIT or CA AGREEMENT NAME:			
1. TYPE OF WELL OIL WELL	GAS WELL OTHER_		8. WELL NAME and NUMBER:     See Attached List			
2. NAME OF OPERATOR:	N/91-		9. API NUMBER:			
Forest Oil Corporation  3. ADDRESS OF OPERATOR:	N6965	PHONE NUMBER:	Various  10. FIELD AND POOL, OR WILDCAT:			
	Denver, STATE CO ZIP		10. FIELD AND FOOL, OR WILDOAT.			
4. LOCATION OF WELL		ANG PENNANG ANG TERMONING AND AND TO A THE ANG	Service See Edition Service (Service )			
FOOTAGES AT SURFACE: See at	tached list		COUNTY:			
QTR/QTR, SECTION, TOWNSHIP, RAN	GE, MERIDIAN:		STATE: UTAH			
11. CHECK APPE	ROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REP	PORT, OR OTHER DATA			
TYPE OF SUBMISSION		TYPE OF ACTION				
NOTICE OF INTENT	ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION			
(Submit in Duplicate)	ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL			
Approximate date work will start:	CASING REPAIR	NEW CONSTRUCTION	TEMPORARILY ABANDON			
	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR			
✓ SUBSEQUENT REPORT	CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE			
(Submit Original Form Only)	CHANGE WELL NAME  CHANGE WELL STATUS	PLUG BACK PRODUCTION (START/RESUME)	WATER DISPOSAL  WATER SHUT-OFF			
Date of work completion:	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE	✓ OTHER: Change of Operator			
	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATIO				
12. DESCRIBE PROPOSED OR CO	DMPLETED OPERATIONS. Clearly show all p	pertinent details including dates, depths, volu	umes, etc. N3535			
N-2525) to Forest Oil Corp document is attached The Forest Oil Corporation as	change the operator for the attac coration (N-6965). Forest merge ne contract operated wells will co new operator, accepts all applica lucted on the lease or portion of t	d with The Houston Exploration intinue to be contract operated able terms, conditions, stipulations.	n Company, a copy of the merger by Enduring.			
Forest Oil Corporation me	ets the State of Utah bonding red	quirements under Safeco bond	#6218963.			
Please send all future correspondence to Forest Oil Corporation at the above listed address.						
Forest Oil Corporation, 70	7 17th Street, Suite #3600, Denv	ver, CO 80202				
7-5-07						
J. Ø. Ridens, Senior Vice President - Western Region Date						
- P. Macrio, Corner Vice						
NAME (PLEASE PRINT) Joanne C.	Hresko	TITLE Vice President	& General Mgr Northern Division			
SIGNATURE HAMM	e C. Thishis	DATE 7-5. 0				
(This space for State use only)	Δ	Il wells with	APD or New RECEIVED			
APPROVED	8127101	status	RECEIVED			
Callana K	2.1200					
Division of Oil, Gas a		uctions on Reverse Side)	JUL 3 0 2007			
Earlene Russell, Engi	neering Technician		DIN UE UIL UVO O MINIMO			

DIN UE UIT CVC & MINING MUL

well name	sec	twp	rng	api	entity	lease	well	stat	flag
HORSESHOE BEND 16-33	33	_		4304736214		Federal		APD	8
HORSESHOE BEND 3-33	33			4304736215				APD	
N HORSESHOE 7-16-6-21	16			4304737438	<b>-</b>	State	GW	APD	С
N HORSESHOE 9-16-6-21	16			4304737439		State	GW	APD	C
N HORSESHOE 15-16-6-21	16			4304737440	<del>                                     </del>	State	GW	APD	C
N HORSESHOE 11-16-6-21	16			4304737441		State	GW	APD	C
N HORSESHOE 1-16-6-21	16			4304737442		State	GW	APD	C
N HORSESHOE 13-2-6-21	02			4304737476		State	GW	APD	C
N HORSESHOE 15-2-6-21	02			4304737477		State	GW	APD	C
GUSHER 2-2-6-19	02			4304737561		State	OW	APD	C
GUSHER 16-2-6-19	02	1 1		4304737562		State	OW	APD	C
GUSHER 1-2-6-19	02	-		4304737563		State	OW	APD	C
GUSHER 3-2-6-19	02			4304737568		State	OW	APD	C
E COYOTE 6-2-8-25	02			4304737572		State	GW	APD	C
E COYOTE 3-2-8-25	02	-		4304737573		State	GW	APD	C
E COYOTE 8-2-8-25	02			4304737574		State	GW	APD	C
N HORSESHOE 13-16-6-21	16			4304737575		State	GW	APD	C
E COYOTE 4-2-8-25	02			4304737882		State	GW	APD	C
E COYOTE 14-2-8-25	02			4304737883		State	GW	APD	C
E COYOTE 10-2-8-25	02			4304737884		State	GW	APD	C
E COYOTE 16-2-8-25	02	-		4304737885		State	GW	APD	C
E COYOTE 12-2-8-25	02			4304737886	<del></del>	State	GW	APD	C
N HORSESHOE 16-18-6-22	18			4304737887		Federal	GW	APD	Č
N HORSESHOE 14-18-6-22	18			4304737888		Federal	GW	APD	С
N HORSESHOE 2-18-6-22	18			4304737889		Federal	GW	APD	С
N HORSESHOE 10-18-6-22	18			4304737890		Federal	GW	APD	С
N HORSESHOE 8-18-6-22	18	060S	220E	4304737891		Federal	GW	APD	С
N HORSESHOE 13-15-6-21	15	060S	210E	4304738013		Federal	GW	APD	С
N HORSESHOE 15-15-6-21	15	060S	210E	4304738014		Federal	GW	APD	С
N HORSESHOE 11-15-6-21	15	060S	210E	4304738015		Federal	GW	APD	С
N HORSESHOE 9-15-6-21	15	060S	210E	4304738016		Federal	GW	APD	C
N HORSESHOE 5-15-6-21	15	060S	210E	4304738017		Federal	GW	APD	С
N HORSESHOE 3-15-6-21				4304738018		Federal			С
N HORSESHOE 5-20-6-22	20	060S	220E	4304738019		Federal	GW	APD	С
N HORSESHOE 13-20-6-22	20	060S	220E	4304738020		Federal	GW	APD	С
N HORSESHOE 3-20-6-22	20	060S	220E	4304738021		Federal	GW	APD	С
N HORSESHOE 7-20-6-22	20	060S	220E	4304738022		Federal	GW	APD	С
N HORSESHOE 11-20-6-22	20	060S	220E	4304738023		Federal	GW	APD	С
N HORSESHOE 2-12-6-21	12	060S	210E	4304738198		Federal	GW	APD	C
N HORSESHOE 14-12-6-21	12	060S	210E	4304738199		Federal	GW	APD	C
N HORSESHOE 10-12-6-21	12			4304738200		Federal	GW	APD	С
N HORSESHOE 8-12-6-21	12			4304738201		Federal	GW	APD	C
N HORSESHOE 16-13-6-21	13			4304738202		Federal			С
N HORSESHOE 15-17-6-22	17			4304738203		Federal			С
N HORSESHOE 5-19-6-22	19			4304738204		Federal		APD	С
N HORSESHOE 15-19-6-22	19			4304738205		Federal			С
N HORSESHOE 3-21-6-22	21			4304738206				APD	С
N HORSESHOE 11-21-6-22	21	060S	220E	4304738207		Federal	GW	APD	С
N HORSESHOE 15-21-6-22	21	060S	220E	4304738208		Federal	GW	APD	С
N HORSESHOE 13-21-6-22	21			4304738209			GW		С
N HORSESHOE 5-21-6-22	21			4304738210				APD	С
N HORSESHOE 7-19-6-22	19			4304738271		Federal		APD	С
N HORSESHOE 5-16-6-22	16	060S	220E	4304738406		State	GW	APD	

well_name	sec	twp	rng	api	entity	lease	well	stat	flag
TWELVEMILE WASH 11-13-5-20	13	050S	200E	4304738437		Federal	GW	APD	С
TWELVEMILE WASH 1-15-5-20	15	050S	200E	4304738438		Federal	GW	APD	С
N HORSESHOE 4-33-5-21	33	050S	210E	4304738439		Federal	GW	APD	С
GUSHER 6-15-6-19	15	060S	190E	4304738440		Federal	GW	APD	С
HORSESHOE BEND W 9-34-6-20	34	060S	200E	4304738441		Federal	GW	APD	С
N HORSESHOE 16-12-6-21	12	060S	210E	4304738442		Federal	GW	APD	С
N WALKER HOLLOW 12-29-6-23	29	060S	230E	4304738443		Federal	GW	APD	С
N WALKER HOLLOW 10-30-6-23	30	060S	230E	4304738444		Federal	GW	APD	С
PELICAN LAKE 11-3-8-20	03	080S	200E	4304738445		Federal	GW	APD	С
PELICAN LAKE 8-4-8-20	04	080S	200E	4304738446		Federal	GW	APD	C
E COYOTE 10-3-8-25	03	080S	250E	4304738447		Federal	GW	APD	С
BORDER 10-9-8-25	09	080S	250E	4304738448		Federal	GW	APD	С
N WALKER HOLLOW 14-33-6-23	33	060S	230E	4304738455		Federal	GW	APD	С
SNAKE JOHN WASH 14-11-7-25	11	070S	250E	4304738456		Federal	GW	APD	С
SNAKE JOHN WASH 4-24-7-25	24	070S	250E	4304738457		Federal	GW	APD	C
SQUAW RIDGE 1-26-7-25	26	070S	250E	4304738458		Federal	GW	APD	С
SQUAW RIDGE 13-28-7-25	28	070S	250E	4304738459		Federal	GW	APD	С
SQUAW RIDGE 16-30-7-25	30	070S	250E	4304738460		Federal	GW	APD	С
SQUAW RIDGE 14-16-7-25	16	070S	250E	4304738461		State	GW	APD	С
GUSHER 13-11-5-19	11	050S	190E	4304738462		State	GW	APD	С
N HORSESHOE 1-15-6-21	15	060S	210E	4304738831		Federal	GW	APD	С
N HORSESHOE 16-9-6-22	09	060S	220E	4304739083		State	GW	APD	
N HORSESHOE 12-7-6-22	07	060S	220E	4304739084		State	GW	APD	
N HORSESHOE 14-10-6-22	10	060S	220E	4304739085		State	GW	APD	
N HORSESHOE 2-15-6-22	15	060S	220E	4304739086		State	GW	APD	
N WALKER HOLLOW 12-32-6-23	32	060S	230E	4304739087		State	GW	APD	
N WALKER HOLLOW 10-32-6-23	32	060S	230E	4304739088		State	GW	APD	
N WALKER HOLLOW 16-32-6-23	32	060S	230E	4304739089		State	GW	APD	
N WALKER HOLLOW 8-32-6-23	32	060S	230E	4304739090		State	GW	APD	
N WALKER HOLLOW 11-36-6-23	36	060S	230E	4304739091		State	GW	APD	
N WALKER HOLLOW 13-36-6-23	36	060S	230E	4304739092		State	GW	APD	
N WALKER HOLLOW 14-32-6-23	32	060S	230E	4304739093		State	GW	APD	
N WALKER HOLLOW 15-36-6-23	36	060S	230E	4304739094		State	GW	APD	
N HORSESHOE 4-15-6-22	15	060S	220E	4304739095		State	GW	APD	
N HORSESHOE 9-10-6-21	10	060S	210E	4304739284		Federal	GW	APD	С
N HORSESHOE 12-13-6-21	13	060S	210E	4304739285		Federal	GW	APD	
N HORSESHOE 7-15-6-21	15	060S	210E	4304739286		Federal	GW	APD	
N HORSESHOE 9-19-6-22	19	060S	220E	4304739287		Federal	GW	APD	
N HORSESHOE 13-19-6-22	19	060S	220E	4304739288		Federal	GW	APD	
N HORSESHOE 11-19-6-22	19	060S	220E	4304739289		Federal	GW	APD	
SQUAW RIDGE 16-13-7-24	13	070S	240E	4304739319		Federal	GW	APD	C
N HORSESHOE 16-7-6-22	07	060S	220E	4304739320		Federal	GW	APD	С
SQUAW RIDGE 8-16-7-25	16	070S	250E	4304738024		State	GW	NEW	С

### STATE OF UTAH RTMENT OF NATURAL RESOURCES

## DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

### Request to Transfer Application or Permit to Drill

(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

Well name:	N Horseshoe 9-16-6-21				
API number:	4304737439				
Location:	Qtr-Qtr: NESE Section: 16 Township: 6S Range: 21E				
Company that filed original application:	The Houston Exploration Company				
Date original permit was issued:	03/09/2006				
Company that permit was issued to:	The Houston Exploration Company				

Check one	Desired Action:
	Transfer pending (unapproved) Application for Permit to Drill to new operator
	Transfer pending (unapproved) Application for Pernit to Drin to new operator
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
1	Transfer approved Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.		
If located on private land, has the ownership changed?		<b>✓</b>
If so, has the surface agreement been updated?		
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?		<b>✓</b>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?		1
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?		<b>√</b>
Has the approved source of water for drilling changed?		1
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?		1
Is bonding still in place, which covers this proposed well? Bond No. 6218963	1	

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Tami Hofmann	Title Regulatory Specialist
Signature Jami Hormann	Date 08/02/2007
Representing (company name) Foliated Oil Corporation	

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.



### State of Utah

#### DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

April 29, 2008

Ginger Bowden The Houston Exploration Co. 1100 Louisiana, Suite 2000 Houston, TX 77002

Re: APD Rescinded – North Horseshoe 9-16-6-21 Sec. 16, T. 6S, R. 21E

Uintah County, Utah API No. 43-047-37439

Dear Ms. Bowden:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (the Division) on March 9, 2006. On March 6, 2007, the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill this well is hereby rescinded, effective April 29, 2008.

A new APD must be filed with this office for approval <u>prior</u> to the commencement of any future work on the subject locations.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Masor

**Environmental Scientist** 

cc: Well File

SITLA, Ed Bonner

